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V. 13, no. 1. Ja.5-17, 1931.

Ang. Gaz. N.S.W. (Sydney)

Anderson, R. H.
Farm forestry, V. The native and introduced trees of New South Wales. Agr. Gaz. N.S.W. 41: 692-700, 891-902. illus. S.1,D.1, 1930. no.9,12.

Magee, C. J.
A new virus disease of bananas. Agr. Gaz. N.S.W. 41: 929. D.1, 1930. no.12.
Infectious chlorosis or mosaic belonging to the virus disease group, distinct from "bunchy top".

Agr. Journ. India (Calcutta)

Agharkar, S. P. & Banerji, I.
Studies in the pollination and seed formation of water-hyacinth (Eichhornia speciosa Junth.) Agr. Journ. India. 25: 286-296. illus., pl.xviii. Jl.1930 (Rec'd Ja.1931) no.4.

Gulati, A. N.
A note on the differentiation of hairs from the epidermis of cotton seeds. Agr. Journ. India. 25: 313-316. illus. Jl.1930 (Rec'd Ja.1931) no.4.

Khanna, K.L. & Venkatraman, T. S.
Suggested method of studying sugarcanes for breeding work. Agr. Journ. India. 25: 306-312. pl.xix-xxii (1 col.) Jl.1930(Rec'd Ja.1931) no.4.

Mehta, K. C.
Studies on the annual recurrence of "powdery mildews" of wheat and barley in India. I- Agr. Journ. India. 25: 283-285. pl.xvii(col.) Jl.1930. (Rec'd Ja.1931) no.4.

Rhind, D.
A note on three oil-bearing grasses from Burma. Agr. Journ. India. 25: 327-329. Jl.1930(rec'd Ja. 1931) no.4.
Cymbopogon sp., C. clandestinus, C. virgatus.

USDA LIB

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Agr. Rev. Agropec. (Madrid)
Benlloch, M.
La veceria y sus causas. Agr. Rev. Agropec. (Madrid) 2: 821-823. illus. D.1930. no.24.
Olive.

Alpe. Riv. For. Ital. (Piacenza)
Fiori, A.
Le conifere spontanee sulla montagna Italiana. Alpe Riv. For. Ital. 18: 10-15. illus. Ja.1931. no.1.

Amer. Fern Journ.
Anderson, W.A. Jr.
A list of Tennessee ferns. Amer. Fern Journ. 20: 143-150. O./D.1930. no.4.

Kümmerle, J. B.
Has the genus Onychium any representative in South America. Amer. Fern Journ. 20: 129-138. illus. O./D. 1930. no.4.
O. viviparum comb.nov. (O.auratum) from Peru.

Palmer, E. J.
Additional notes on Texas ferns. Amer. Fern Journ. 20: 138-142. O./D. 1930. no.4.

Amer. Journ. Bot.
Abstracts of papers presented before Physiological section of the Botanical society of America, Cleveland, Ohio, Dec.30-31, 1930 and Jan.1,1931. Amer. Journ. Bot. 17: 1041-1050. D.1930. no.10.

Arnold, C. A.
A petrified lepidophyte cone from the Pennsylvanian of Michigan. Amer. Journ. Bot. 17: 1028-1032. illus. D.1930. no.10.

Gustafson, F. G.
Intramolecular respiration of tomato fruits. Amer. Journ. Bot. 17: 1011-1027. illus. D.1930.no.10.

Koch, M. F.
Studies in the anatomy and morphology of the composite flower. II. The corollas of the Helianthea and Mutisieae. Amer. Journ. Bot. 17: 995-1010. illus., pl. lxi-lxii. D.1930. no.10.

Amer. Journ. Bot. (cont.)

Lepeschkin, W. W.
Light and the permeability of protoplasm.
Amer. Journ. Bot. 17: 953-970. D.1930. no.10.

Reed, H.S.
The swelling of citrus fruits. Amer. Journ. Bot. 17: 971-982. illus. D.1930. no.10.

Styer, J. F.
Nutrition of the cultivated mushroom. Amer. Journ. Bot. 17: 982-994. D.1930. no.10.

Whitaker, T. W.
Chromosome numbers in cultivated cucurbits.
Amer. Journ. Bot. 17: 1033-1040. pl. lxiii.
D.1930. no.10.

Amer. Midl. Nat. (Notre Dame, Ind.)

Bush, B. F.
Francis Daniels' Carices. Amer. Midl. Nat. 12: 185-194. Ja.1931. no.7.

Nieuwland, J. A. & Just, Th.
New and interesting plant records from northern Indiana. Amer. Midl. Nat. 12: 217-223. Ja.1931. no.7.
Arisaema deflexum n.sp.

Slavin, A. D.
Several forms of native and naturalized trees.
Amer. Midl. Nat. 12: 224-226. Ja.1931. no.7.
Tilia glabra f. fastigiata, Acer platanoides f. erectum, Ulmus americana, f.ascendens, f.n.

Arch. Pharm. & Ber. Deut. Pharm. Ges. (Berlin)

Ghosh, T. P. & Krishna, S.
Jahreszeitliche veränderung des alkaloidgehalts der indischen Ephedra-arten. Arch. Pharm. & Ber. Deut. Pharm. Ges. 268: 636-643. D.1930. no.9.

Arch. Protistenk. (Jena)

Conrad, W.
Flagellates nouveaux ou peu connus. II.
Arch. Protistenk. 72: 538-583. illus. D.18, 1930. no.3.

Arch. Protistenk, (cont.)

Czempyrek, H.
Beitrag zur kenntnis der schwärmerbildung bei der gattung Cladophora. Arch. Protistenk. 72: 433-452. illus. D.18,1930. no.3.
Beiträge zur entwicklungsgeschichte der protophyten V. i. e. VI.

List, H.
Die entwicklungsgeschichte von Cladophora flomerata Kützing. Arch. Protistenk. 72: 453-481. illus. D.18,1930. no.3.
Beiträge zur entwicklungsgeschichte der protophyten VI. i.e. VII.

Lohwag, H.
Mykologische studien. V. Zu Xanthochrous cuticularis (Bull.) Pat. und Xanthochrous hispidus (Bull.) Pat. Arch. Protistenk. 72: 420-432. illus., pl. 25-28. D.18,1930. no.3.

Ber. Deut. Chem. Ges. (Berlin)

Asahina, Y. & Watanabe, M.
Ueber gyrophorsäure. Ber. Deut. Chem. Ges. 63: 3044-3048. D.10,1930. no.11.
Untersuchungen über flechtenstoffe,VI.

Zechmeister, L. & Tuzson, P.
Ueber den farbstoff der sonnenblume (ein beitrag zur kenntnis der blüten-xanthophylle). Ber. Deut. Chem. Ges. 63: 3203-3207. D.10,1930. no.11.

Biol. Gen. (Vienna)

Hafekost, G.
Zur theorie der saugkraftmessung an kulturpflanzen im keimlingsstadium. Biol. Gen. 6: 633-650. illus. 1930. no.4.

Bol. Agr. e Pec. Mocambique.

Gomes de Almeida, A.
Nota sobre "Datura tatula" L. Bol. Agr. e Pec. Mocambique 1930: 35-36. illus. Ja./Je.1930. (Rec'd Ja.1931) no.1/2.

Gomes de Almeida, A.
Nota sobre "Gloriosa superba" L. Bol. Agr. e Pec. Mocambique 1930: 31-33. illus. Ja./Je. 1930 (Rec'd Ja.1931) no.1/2.

Bol. Agr. e Pec. Mocambique (cont.)
Gomes de Almeida, A.
Plantas venenosas e medicinais dos indigenas de Mocambique. Bol. Agr. e Pec. Mocambique 1930: 9-29. Ja./Je. 1930 (Rec'd Ja.1931) no.1/2.

Bol. R. Soc. Espan. Hist. Nat. (Madrid)
Guerrero, P. G.
Datos para la micoflora de agua dulce hispano-marroqui. Bol. R. Soc. Espan. Hist.Nat. 30: 411-416. illus. O.1930. no.8.
Microchaete setcasasii, Calothrix candelii n.ssp.

Unamuno, L. M.
Datos para el conocimiento de la micoflora española. Bol. R. Soc. Españ. Hist. Nat. 30: 419-434. illus. O.1930. no.8.

Unamuno, L.M.
Hongos microscópicos de los alrededores de Caudete (Albacete). Bol. Ro. Soc. Españ.Hist. Nat. 30: 379-390. Jl. 1930. no.7.

Boll. Studi ed Inform. R. Giard.Colon. Palermo.
Bruno, F.
Esperiment su alcune piante foraggiere resistenti alla siccità. Boll. Studi ed Inform. R. Giard, Colon. Palermo. 11: 3-10. illus. 1930.
Pennisetum clandestinum [kikuyu], Pueraria thunbergiana (kudzu).

Catalano, G.
Specie di agave fiorite nel R. Orto botanico di Palermo. Boll. Studi ed Inform. R. Giard. Colon. Palermo. 11: 40-55. illus. 1930.

Gioelli, F.
Alcuni dati ecologici sul Pennisetum purpureum Schum ed altre graminacee. Boll. Studi ed Inform. R. Giard. Colon. Palermo 11: 29-39. illus. 1930.

Sorgès, F.
La Chamaerops humilis (Palma nana) quale pianta da carta. Boll. Studi ed Inform. R. Gard. Colon. Palermo 11: 19-26. 2 pl. on 1. 1930.

Boll. Studi ed Inform. R. Giard. Colon. Palermo (cont.)

Sorges, F.
Sulla utilizzazione delle foglie esauste di Andropogon citratus D. C. come foraggio. Boll. Studi ed Inform. R. Giard. Colon. Palermo 11:11-18. 1930.

Bot. Gaz. (Chicago)

Arnold, C. A.
Bark structure of Callixylon. Bot. Gaz. 90: 427-431. illus. D.1930. no.4.

Buchholz, J. T. & Blakeslee, A. F.
Pollen tube growth and control of gametophytic selection in cocklebur, a 25-chromosome Datura. Bot. Gaz. 90: 366-383. illus. D.1930. no.4.

Busse, W. F. & Burnham, C. R.
Some effects of low temperatures on seeds. Bot. Gaz. 90: 399-411. illus. D.1930. no.4.
Cotton and flax.

Semmens, E. S.
Hydrolysis in the living plant by polarized light. Bot. Gaz. 90: 412-426. illus. D.1930. no.4.

Sherff, E. E.
New or otherwise noteworthy Compositae V. Bot. Gaz. 90: 384-398. pl.iv-v. D.1930. no.4.
Coreopsis & Bidens.

Skutch, A. F.
Unrolling of leaves of Musa sapientum and some related plants and their reactions to environmental aridity. Bot. Gaz. 90: 337-365. illus. D.1930. no.4.

Bot. Mag. Tokyo.

Hagiwara, T.
Genetic studies of flower-colours in Japanese morning glories. IV-VI. Bot. Mag. Tokyo. 44: 573-580, 580-591, 591-595. N.1930. no.527.
In Japanese.

Hayata, B.
On the systematic importance of the stelar system in the phanerogams. Bot. Mag. Tokyo 44: 598-616. illus. N.1930. no.527.
In Japanese.

Bot. Mag. Tokyo (cont.)
Ohwi, J.
Symbolae ad floram Asiae orientalis.
Bot. Mag. Tokyo, 44: 565-573. N.1930. no.527.

Brooklyn Bot. Gard.Rec.
Gager, C. S.
Report on a European trip of the director.
Brooklyn Bot. Gard. Rec. 20: 1-24. illus.
Ja. 1931. no.1.
Gives account of some Italian botanic gardens.

Bull. Amer. Dahlia Soc.
Howe, M. A.
Dahlias are plants of American origin, although these gorgeous blooms were not introduced into ornamental gardens of America until a little more than a century ago. Bull. Amer. Dahlia Soc. 12 (55): 4-7. illus. Ja.1931.

Bull. Amer. Peony Soc.
Saunders, A. P.
The work of Auguste Dessert. Bull. Amer. Peony Soc. 24(44): 3-17. D.1930. no.44.

Bull. Dept. Agr. Straits Settlem. & Feder. Malay States
Sharples, A.
Annual report for 1929, Div. of mycology.
Bull. Dept. Agr. Straits Settlem. & Feder. Malay States, Gen. Ser. 3(Techn.Rep.1929): 62-72. 1930.

Bull.Econ.Indochine Sect. B. (Hanoi)
Forbé, E. & Trojani, F.
Etude des principaux bois d'Indochine. Bull. Econ. Indochine. 33(8B): 7-175. 1930.
Arranged under vernacular names.

Forbe, E. & Dong-Phuc-Ho.
Répertoire des essences forestières indochinoises. Bull. Econ. Indochine. 33(6B): 5-147. 1930.

Bull. Min. Agr. Egypt. Techn. & Sci. Serv.
Ghamrawy, A.K.M.
Some climatic relations of the date palm in Egypt. Bull. Min. Agr. Egypt Techn. & Sci. Serv. 97. 23 p. 1930.

Bull. R. Soc. Tosc. Ortic. (Firenze)

Rinaldi, Z.

Le prunee ornamentali, (cont.) Bull.R.Soc. Tosc. Ortic. 55: 56-60. illus. S./D.1930. no.9/12.

Bull. Soc. Agricultours Algérie.

Ducellier, L.

Espèces et variétés de céréales cultivees en Algerie. Bull. Soc. Agriculteurs Algerie 73(477): 1-62. illus. Ja./Ap.1930.

Bull. Soc. Bot. France (Paris)

Bouygues, H.

La pression de la zone cambiale proprement dite de la tige a-t-elle une influence sur l'orientation des cloisons de l'assise phelogénique? Bull. Soc. Bot. France. 77: 374-383. illus. O.8,1930. (Rec'd Ja.1931) no.5/6.

Braun-Blanquet, J.

Contribution à la flore du massif du Tiffert (Moyen Atlas marocain). Bull. Soc. Bot. France 77: 286-289. O.8,1930 (Rec'd Ja.1931) no.5/6.

Astragalus nivelleanus nov.spec.

Chalaud, G. & Nicolas, G.

La croissance et la fausse dichotomie du Metzgēria furcata Dum.II. Bull. Soc. Bot. France 77: 169-186. illus. Jl.5,1930 (Rec'd Ja.1931) no.3/4.

Chadefaud, M.

Observations cytologique sur les confervacees. Bull. Soc. Bot. France 77: 358-366. O.8,1930. (Rec'd Ja.1931) no.5/6.

Chemin, E.

Ahnfeltia plicata Fries et son mode de reproduction. Bull. Soc. Bot. France 77: 342-354. illus., pl. iv. O.8,1930 (Rec'd Ja.1931) no.5/6.

Chermezon, H.

Cypéracées nouvelles du Gabon. Bull. Soc. Bot. France 77: 275-279. O.8,1930 (Rec'd Ja.1931) no.5/6.

Fimbristylis gabonica, Heleocharis testui, Hypolytrum testui, H. gabonicum, Mapania gabonica, M. publisquama, M. testui, Scleria aquatica n.spp.

Bull.Soc. Bot. France (cont.)

Dangeard, P.
A propos de quelques travaux récents sur la "grains de fucosan" des phéophycées. Bull. Soc. Bot. France 77: 369-374. pl.v. O.8,1930 (Rec'd Ja.1931) no.5/6.

Defer,F.
Sur les "grains de fucosane" des phéophycées. Bull. Soc. Bot. France 77: 295-297. O.8,1930. (Rec'd Ja.1931) no.5/6.

Devaux, H.
Les affinités cellulaires. Bull. Soc. Bot. France 77: 144-159. Jl.5,1930 (Rec'd Ja.1931) no.3/4.

Douin, C.
Un dernier mot sur la fausse dichotomy. Bull. Soc. Bot. France 77: 164-169. illus. Jl.5,1930. (Rec'd Ja.1931) no.3/4.

Douin, C.
Remarques critiques sur quelques céphaloziellacées. (cont.) Bull. Soc. Bot. France 77: 196-201. Jl.5, 1930 (Rec'd Ja.1931) no.3/4.

Flahaut, C.
Jules Daveau. Bull. Soc. Bot. France 77: 130-143. port. Jl.5,1930 (Rec'd Ja.1931) no.3/4.

Gagnepain, F.
Un cas remarquable d'évolution: la famille des marantacées. Bull. Soc. Bot. France 77: 190-191. J.5,1930 (Rec'd Ja.1931) no.3/4.

Guillaumin, A.
Espèces et localités nouvelles d'orchidées-vandées d'Indo-Chine. Bull. Soc. Bot. France. 77: 326-340. O.8,1930 (Rec'd Ja.1931) no.5/6.

Jovet, P.& Vergnet, J.
A propos de deux adventices: Galinsoga parviflora Cav. et Artemisia annua L. 2. Bull. Soc. Bot. France 77: 281-286. O.8,1930 (Rec'd Ja.1931) no.5/6.

Lallemand, S. (Ancel)
Etude cytologique de l'action des rayons X sur les racines d'Allium cepa. Bull. Soc. Bot. France. 77: 192-196. Jl.5,1930(Rec'd Ja.1931) no.3/4.

Bull. Soc. Bot. France. (cont.)

Lallemand, S. (Ancel)
Relations existant entre les examens cytologiques et les mesures de croissance pratiquées sur la racines irradiées d'Allium cepa. Bull. Soc. Bot. France 77: 274-275. O.8,1930 (Rec'd Ja.1931) no.5/6.

Lemesle, R.
Observations sur la structure des faisceaux libéro-ligneaux du pétiole de certaines ombelliferes. Bull. Soc. Bot. France 77: 297-310. illus. O.8, 1930 (Rec'd Ja.1931) no.5/6.

Mangenot, G.
A propos de la communication de M. Defer sur les "grains de fucosane" Bull. Soc. Bot. France 77: 366-369. O.8,1930 (Rec'd Ja.1931) no.5/6.

Martin-Sans, E.
Hexamérie normale du Reseda glauca L. Bull. Soc. Bot. France 77: 259-261. O.8,1930 (Rec'd Ja. 1931) no.5/6.

Merrill, E. D.
Le genre Tolbonia O. Kuntze synonyme de Calotis. Bull. Soc. Bot. France 77: 340-341. O.8,1930(Rec'd Ja.1931) no.5/6.

Moreau, F. & Moreau, Mme.F.
L'ornementation des spores des russules. Bull. Soc. Bot. France 77: 310-324. pl. i-iii. O.8, 1930 (Rec'd Ja.1931) no.5/6.

Mugnier, L.
Roses de Bretagne, de Normandie et du Bugey. Bull. Soc. Bot. France 77: 160-163. Jl.5,1930. (Rec'd Ja.1931) no.3/4.

Pitot, A.
Observations sur le tégument de la graine des légumineuses. Bull. Soc. Bot. France 77: 289-294, 354-358. illus. O.8,1930 (Rec'd Ja.1931) no.5/6.

Reynier, A.
Les botanistes prélinnéens de Bouches- du-Rhône. Bull. Soc. Bot. France 77: 262-273. O.8, 1930 (Rec'd Ja.1931) no.5/6.

Bull. Soc. Bot. France (cont.)

Senay, P.

Impatiens fulva Nutt. sur les rives de la basse Seine. Bull. Soc. Bot. France 77: 258-259. O.8, 1930 (Rec'd Ja.1931) no.5/6.

Bull. Soc. Centr. For. Belgique (Bruxelles)

Delforge, P.

Le Chrysomyxa abietis (rouille des aiguilles de l'épicéa). Bull. Soc. Centr. For. Belgique 37: 419-423. S.1930. no.9.

Bull. Soc. Mycol. France (Paris)

Joachim, L.

Paul Dumée (1819-1930). Bull. Soc. Mycol. France 46: 151-155. port. (front.) N.25,1930. no.2.

Maire, R.

Sur le Tuber blotii E.Desl. Bull. Soc. Mycol. France 46: 149-150. N.25,1930. no.2.

Moreau, F. & Moreau, Mme.F.

Deuxieme contribution à l'étude des russules de la région de Besse (Puy-de-Dôme). Bul. Soc. Mycol. France 46: 127-142. N.25,1930. no.2.

Moruzi, C.

Sur une maladie du champignon de couche causée par un Monilia. Bull. Soc. Mycol. France 46: 143-148. illus. N.25,1930. no.2.

Nardi, R.

Observations sur la caryocinèse chez quelques ascomycètes. Bull. Soc. Mycol. France 46: 97-126. N.25,1930. no.2.

Bull. Soc. Vaud. Sci. Nat. (Lausanne)

Jaccard, P.

Facteurs mécaniques et physiologiques déterminant la forme du tronc et des branches des arbres. Bull. Soc. Vaud. Sci. Nat. 57: 209-211. 1930. no.225.

Meylan, C.

Troisième contribution à la connaissance des lichens du Jura. Bull. Soc. Vaud. Sci. Nat. 57: 213-218. 1930. no.225.

Chacaras e Quintas (S.Paulo)
Figueiredo, R. de.
"Calamus rotang" e seus similares na industria da palha para cadeiras. Chacaras e Quintaes. 42: 605-608. illus. D.15, 1930. no.6.

Kuhlmann, J. G.
A "sapucainha", Carpotroche brasiliensis. Chacaras e Quintaes 42: 633-636. illus. D.15, 1930. no.6.

Sampaio, A. J.de.
A nomenclatura vulgar das plantas brazileiras. Chacaras e Quintaes. 42: 596-598. D.15,1930. no.6.

Chem. Umschau (Stuttgart)
Loon, J.van. & Steger, Alph.
Das fette oel der samen von Couepia grandiflora, Benth., Chem. Umschau 37: 337-340. illus. D.10, 1930. no.24.

Citrus Indust. (Tampa, Fla.)
Wilkinson, J. W.
Origin of Marsh seedless grapefruit. Citrus Indust. 11(10): 6, 30. illus. O.1930.

Citrus Leaves (Redlands, Cal.)
Stanford, H. R.
Control of scaly bark of orange at Chaffey. Citrus Leaves 11: 8-9, 18-21. Ja.1931. no.1.

Citrus Riv.Camera Agrum. Messina.
Sciacca, N.
Lo stato attuale delle conoscenze sulle cause del mal-secco degli agrumi. Citrus Riv. Camera Agrum. Messina 16: 422-425. N.1930. no.11.

Compt. Rend. Acad. Agr. France. (Paris)
Arnaud, G. & Gaudineau, Mlle.
Le traitement de la carie du blé (1929-1930) Compt. Rend. Acad. Agr. France 16: 1029-1035. D.10,1930. no.31.

Miège, E.
Contribution a l'étude et à la classification des blés. Compt. Rend. Acad. Agr. France 16: 1078-1089. D.17, 1930. no.32.

Compt. Rend. Acad. Sci. Paris.

Bridel, M. & Charaux, C.
Sur le frangularoside, nouveau rhamnoside de l'écorce de bourdaine récemment séchée. Compt. Rend. Acad. Sci. Paris 191: 1374-1376. D.22, 1930. no.25.

Hocquette, M.
Evolution du noyau dans les cellules bactérifères des nodosités d'Ornithopus perpusillus pendant les phenénomènes d'infection et de digestion intracellulaire. Compt. Rend. Acad. Sci. Paris 191: 1363-1365. D.22, 1930. no.25.

Nicolas, G. & Aggery, Mlle.
Nouvelles observations sur phyllosticta daphniphylli Nicol. et Agg. et aggravation de son action par des bacteries. Compt. Rend. Acad. Sci. Paris 191: 1376-1378. D.22, 1930. no.25.

Pontillon, C.
Variations des insaponifiables et du phosphore lipidique du Sterigamtocystis nigra en fonction de la composition minérale due liquide de culture. Compt. Rend. Acad. Sci. Paris. 191: 1367-1369. D.22, 1930. no.25.

Simonet, M.
Etude cytologie de quelques hybrides d'iris. Compt. Rend. Acad. Sci. Paris 191: 1365-1367. D.22,1930. no.25.

Werner, R. G.
Sur la formation des lichens. Compt. Rend. Acad. Sci. Paris 191: 1361-1363. D.22, 1930. no.25.

Compt. Rend. Soc. Biol. Paris.

Obaton, F.
Nouvelles recherches sur les relations qui existent entre les glucides du Sterigmatocystis nigra et ceux qui lui sont fournis comme aliment. Compt. Rend. Soc. Biol. Paris 105: 673-674. D.12,1930. no.34.

Simonet, M.
Nouvelles observations cytologiques chez les iris. Compt. Rend. Soc. Biol. Paris 105: 740-741. D.19,1930. no.35.

Tapadinhas, J.
Recherches sur la spécificité de la phosphatase, sur la phosphatase des feuilles vertes. Compt. Rend. Soc. Biol. Paris 105: 811-813. D.19, 1930. no.35.

Compt. Rend. Soc. Biol. Paris. (cont.)

Volkonsky, M.
Les variations du plaste de Polytoma uvella et son rôle dans l'assimilation des substances azotées. Compt. Rend. Soc. Biol. Paris. 105: 680-684. illus. D. 12, 1930. no. 34.

Cytology. (Tokyo)

Clausen, R. E.
Inheritance in Nicotiana tabacum. X. Carmine-coral variegation. Cytologia (Tokyo) 1: 358-368. illus. O.1930 (Rec'd Ja 1931) no. 4.

Kihara, H.
Karyologische studien an Fragaria mit besonderer berücksichtigung der geschlechtschromosomen. Cytologia. (Tokyo) 1: 345-357. illus. O. 1930. no. 4.

Stow, I.
Experimental studies on the formation of the embryosac-like giant pollen grain in the anther of Hyacinthus orientalis. Cytologia (Tokyo) 1: 417- 439. illus., pl. 24-26. O. 1930. no. 4.

Wada, D.
Anstichversuche an den zellen der staubfadenhaare von Tradescantia virginica. Cytologia. (Tokyo) 1: 404-416. p. 23. O. 1930. no. 4

Wakayama, K.
Contributions to the cytology of fungi. 1. Chromosome number in Agaricaceae. Cytologia (Tokyo) 1: 369-383. illus. O. 1930. no. 4.

Desert (Pasadena)

Decroft, W. I.
Some South African milkweeds, Asclepiadaceae, Stapelia, Duvalia, Huernia. Desert. (Pasadena) 2: 115. illus. Ja. 1931. no. 9.
S. gigantea, D. compacta (?) Huernia loesenerianа.

Johnson, D.A.
The fouquierias. Desert. (Pasadena) 2: 120-121. illus. Ja. 1931. no. 9.

Samuels, M. C.
Echeveria scaphophylla. Desert (Pasadana) 2: 117. illus. Ja. 1921. no. 9.

Deutsche Forst-Zeit. (Neudamm)

Frings, W.
Sterbende walder am nordrande des Ruhrgebietes. Deutsche Forst.-Zeit. 45: 1326-1328. illus. D. 26, 1930. no. 52.

Difesa Piante Torino.

Bongini, V.
Cancro pedale dei garofani (Fusarium dianthi Prill. Delacr) Difesa Piante Torino 7 (4): 6-8. Ag. 1930. no. 4.

Bongini, V.
Della Cuscuta americana. Difesa Piante Torino. 7 (5): 4-6 illus. O. 1930. no. 5

Bongini, V.
Nematofillia del pomodoro. Difesa Piante Torino. 7 (6): 4-6. D. 1930. no. 6.

Voglino, P.
I funghi dannosi al frumento in Provincia di Torino nella campagna 1929-30. Difesa Piante Torino 7(4): 1-5. Ag. 1930. no. 4.

Voglino, P.
La macchie livide della vite (Ascochyta ampelina Sacc.) Difesa Piante Torino. 7(5): 1-3. O. 1930. no. 5.

Voglino, P.
Le macchie livide della rose (Coniothyrium fuckelii Sacc.) Difesa Piante Torino. 7 (6): 1-4. D. 1930. no. 6.

Gard. Chron. (Londown)

Anderson, A. W.
Solanum aviculare. Gard. Chron. 111, 88: 517. D. 20, 1930. no. 2295.
S. nigrum and S. aviculare only two representatives of the family in New Zealand.

Brown, N.E.
Mesembryanthemum. (cont) Gard. Chron. 111, 88: 513. illus. D. 20, 1930; 89: 13-14. Ja. 3, 1931. no. 2295, 2297.
Verrucifera, Titanopsis.

Gard. Chron. (cont.)

Correvon, H.
Erodium crispii. Gard. Chron. III, 88; 528. D. 27, 1930. no. 2296.

Durham, H. E.
Aromatic inheritance. Gard. Chron. III, 88: 517. D. 20, 1930. no. 2295.

Friend, H.
Horticulture in relation to commerce. III. Myrrh. and aloes. IV. Gums and resins. Gard. Chron. III, 88: 531-532. illus. D. 27, 1930; 89: 12-13. Ja. 3, 1931. no. 2296-97.

Grove, A.
Kingdon Ward's lily, no. 6,034. Gard. Chron. III, 88: 515-516. D. 20, 1930. no. 2295.
Thought to be L. taliense, now determined as a distinct species which Dr. Stapf proposes to name for its discoverer.

Grove, A.
Wilsonian woody plants of China. Gard. Chron. III. 89: 11-12. Ja. 3, 1931. no. 2297.

Lawrence, W.
Trees and shrubs with coloured bard. Gard. Chron. III. 88: 512. D. 20, 1930. no. 2295.

A new hybrid citrus. Gard. Chron. III, 88: 507. illus. D. 20, 1930. no. 2295.
Cross between tangerine and grapefruit, from Victoria.

Small, J.
Revelations of a pocket-lens. Gard. Chron. III, 89; 28-9. illus. Ja. 3, 1931. no. 2297.

Stearn, W. T.
Vinca major var. oxyloba. Gard. Chron. III, 88: 516. D. 20, 1930. no. 2295.

Stout, A. B.
Virus diseases of lilies in England. Gard. Chron. III, 88: 532-533. D. 27, 1930. No. 2296.

Gard. Chron. (cont.)

Ward, F. K.
The Roosevelt expedition in French Indo-China. V. The start for Laos. VI. The center of the Indo-Chinese peninsula. VII. Climbing the peak. Gard. Chron. III, 88: 514-515, 530-531, illus. D.20,27, 1930; 89: 10-11. illus. Ja.3,1931. no.2295-2297.

Warner, H. H.
The mistleto and its hosts. Gard. Chron. III, 88: 512. D.12, 1930. no.2295.

Gartenfl. (Berlin)

Liebsch, G.
Merkwürdige und schöne blattorgane. xiii. Pfeilwurzgewäche (marantaceen). Gartenfl. 79: 378-379. illus. D.1930.

Gartenw. (Berlin)

Brill, O.
Vorschläge zur bekämpfung des ulmensterbens (schluss). Gartenw. 34: 690-691. illus. D.12, 1930. no.50.

Herre, H.
Sukkulenten-kleinode von einer sammelreise in die Ceres Karroo (cont.) Gartenw. 34: 707-708. illus. D.19, 1930. no.51.

Köther, H.
Das ulmensterben geht weiter. Gartenw. 34: 702. D.19, 1930. no.51.

Schmoutz, A.
Nochmals: fusskrankheit der sommerastern. Gertenw. 34: 716. D.26, 1930. no.52.

Genetics.

Erlansson, E. W.
Sterility in wild roses and in some species hybrids. Genetics 16: 75-96. Ja.1931. no.1.

Imai, Y.
Linkage studies in Pharbitis nil. I. Genetics 16: 26-41. Ja.1931. no.1.

Kakizaki, Y.
Hybrid vigor in egg-plants and its practical utilizations. Genetics. 16:1-25. illus. Ja.1931. no.1.

Godishn. Sofiisk. Univ. II, Fiziko-Mat. Fakul. (Ann. Univ. Sofia II, Facul. Physico-Mat.)

Burzakov, B.

Nov maluk prinos kum Bulgarskata gubna flora (Neuer kleiner beitrag zur pilzflora Bulgariens). Godishn Sofiisk. Univ. II, Fiziko-Mat. Fakul. (Ann. Univ. Sofia II, Facul. Physico-Mat.) 26(suppl.): 2-4. 1930. no.2[3.

Bulgarian with German summary.

Indian For. (Dehra Dun)

Champion, H. G.

Second interim report on the progress of investigations into the origin of twisted fibre in Pinus longifolia, Roxb. Indian For. 56: 511-520. pl.37-39. D.1930. no.12.

Indische Cult. (Soerbaja)

Duursma, G. D.

De "cocospalm" der Indianen. Indische Cult. 15: 925-927. illus. D.1,1930. no.23.

Carnegiea gigantea.

Eenige houtsoorten uit Guyana. Indische Cult. 15: 946-951. D.1, 1930. no.23.

Jack, H. W. & Sands, W. N.

Waarnemingen bij den dwercklapper op Malakka. Indische Cult. 15: 927-946. illus. D.1, 1930. no.23.

Industr. Chim. (Roma)

Casaburi, V.

I sali di mercurio per la disinfezione delle sementi. Industr. Chim. 5: 1474-1482. illus. 1930. no.12.

Journ. Amer. Chem. Soc.

Clark, E. P.

Deguelin. I. The preparation, purification and properties of deguelin, a constituent of certain tropical fish-poisoning plants. Journ. Amer. Chem. Soc. 53: 313-317. Ja.1931. no.1.

Cracca vogelii, C. toxicara.

Journ. Bombay Nat. Hist. Soc.

Blatter, E.
Revision of the flora of the Bombay Presidency XIII. Journ. Bombay Nat. Hist. Soc. 34: 623-637. N.15, 1930. no.3.

Blatter, E. & Millard, W. S.
Some beautiful Indian trees. V. Journ. Bombay Nat. Hist. Soc. 34: 716-719. illus., 4 pl. (2 col.) N.15, 1930. no.3.

Bose, S. R.
On the true nature of the nuclear division in old internodes of local Tradescantia stems. Journ. Bombay Nat. Hist. Soc. 34: 840-841. 1 pl. N.15, 1930. no.3.

Gopal Banerjee, K.
An instance of anomalous branching of the conjugation-tubes of an Indian form of Spirogyra neglects (Hass) Keutz. Journ. Bombay Nat. Hist. Soc. 34: 842-844. 1 pl. N.15,1930. no.3.

Khanna, L. P.
Some liverworts of the order Marchantiales from Burma. Journ. Bombay Nat. Hist. Soc. 34: 844-846. N.15, 1930. no.3.

Singh, T.C.N.
On the occurrence of vegetative buds on the root of gram. Journ. Bombay Nat. Hist. Soc. 34: 841-842. illus. N.15, 1930. no.3.

Journ. Bot. (London)

Drabble, E.
The British forms of Arenaria serpyllifolia L. and A. leptoclados Guss. Journ. Bot. 68: 370-375. D.1930. no.816.

Fernald, M. L.
The British representatives of Juncus tenuis. Journ. Bot. 68: 364-367. D.1930. no.816.
J. dichotomus (true J.tenuis), J.macer (J. gracilis.)

Marquand, C.V.B.
Naturalization of Buddleija davidii Franch. in the Isle of Wight. Journ. Bot. 68: 377-378. D.1930. no.816.

Journ. Bot. (cont.)

Puglsey, H. W.
Juncus alpinus Villars in England. Journ. Bot. 68: 368-370. D.1930. no.816.

Rendle, A. B.
Adolf Engler (1844-1930). Journ. Bot. 68: 375-377. D.1930. no.816.

Westbrook, M. A.
Compsothamnion thuyoides (Smith) Schmitz. Journ. Bot. 68: 353-364. pl. 593-594. D.1930. no.816.

Wolley-Dod, A. H.
A revision of the British roses. Journ. Bot. v.68, suppl. p.9-16. D.1930. no.816.

Journ. Dept. Agr. So. Australia (Adelaide)

Davidson, J.
Eelworms (Heterodera schachtii Schm.) affecting cereals in South Australia. Journ. Dept. Agr. So.Australia. 34: 378-385. illus. N.15,1930. no.4.

Garrett, S. D.
"Take-all" and "no-growth" diseases of wheat and other cereals. Journ. Dept.Agr. So. Australia 34: 346-347. illus. N.15,1930. no.4.

Hickinbotham, A. R.
Eelworm, and "no-growth" patches. Journ.Dept. Agr. So. Australia 34: 386-392. illus. No.15,1930. no.4.

Samuel, G.
Tomato diseases in South Australia and how to control them with special reference to glasshouse tomato culture (cont.) Journ. Dept. Agr. So.Australia 34: 369-377. illus. N.15,1930. no.4.

Journ. Fac. Sci. Imp. Univ. Tokyo Sect. III, Bot.

Honda, M.
Monographia poacearum japonicarum, bambusoideis exclusis. Journ. Fac. Sci. Imp. Univ. Tokyo Sect. III, Bot. 3:1-484. D.4,1930. no.1.

Journ. For. (Washington,D.C.)

Schreiner, E.J.
The role of disease in the growing of poplar. Journ. For. 29: 79-82. Ja.1931. no.1.
With reference to Cytospora canker.

Snell, W. H.
Forest damage and the white pine blister rust. Journ. For. 29: 68-78. Ja.1931. no.1.

Journ. Min. Agr. Gt. Brit. (London)

Long, H. C.
Weeds of grass land. II. Journ. Min. Agr. Gt. Brit. 38: 985-992. Ja.1931. no.10.

Journ. Mysore Agr. & Exp. Union.

Yegnanarayana Iyer, A.K.
The cultivation of pepper in the Mysore Malnad. Journ. Mysore Agr. & Exp. Union 11: 11-19, 74-84. 3 pl. on 2. 1930. no.1,2.

Journ. Pomol. & Hort. Sci. (London)

Davis, M. B.
Investigations on the nutrition of fruit trees. Some effect of deficiencies of nitrogen, potassium, calcium and magnesium, with special reference to the behaviour of certain varieties of apple trees. Jour. Pomol. & Hort. Sci. 8: 315-344. D.1930. no.4.

Moore, M. H.
The incidence and control of apple scab and apple mildew at East Malling (cont.) II. Apple mildew. Journ. Pomol. & Hort. Sci. 8: 283-304. 4 pl. on 2. D.1930. no.4.

Journ. Washington Acad. Sci.

Blake, S. F.
A new Limonium from Haiti. Journ. Washington Acad. Sci. 21: 12-13. Ja.4,1931 no.1.
L. haitiense.

Swallen, J. R.
Five new grasses from Columbia. Journ. Washington Acad. Sci. 21:14-16. Ja.4,1931. no.1.
Chusquea tuberculosa, Neurolepsis Mollis, Muhlenbergia erectifolia, Panicum longiculme, Ichnanthus angustifolius.

Kosmos (Lwow, Poland)
Szulczewski, J. W.
Przyczynek do zimowej mykoflory Poznania i okolicy (Beitrag zur winter-pilzflora von Poznán und umgegend). Kosmos (Lwów, Poland) 55: 233-272. illus. 1930. no.1/2.
German summary.

Kosmos. (Stuttgart)
Neues über das Tanguska-meteor. Kosmos 28: 10-11. Ja.1931. no.1.

Kranke Pflanze (Dresden)
Esmarch, F.
Die Typhula-fäule des getreides. Kranke Pflanze 7: 159-161. N./D.1930. no.11/12.

Laubert, R.
Eine seltene krankheit des kürbisses. Kranke Pflanze 7: 158-159. 1 pl. N./D.1930. no.11/12.
Cladosporium cucumerinum.

Weber, Ulrich
Strassenbäume als krankheitsträger. Kranke Pflanze 7: 164. N./D. 1930. no.11/12.

Landw. Jahrb. Schweiz (Bern)
Osterwalder, A.
Pilzliche krankheiten der obstbäume In Ber. Eidgen Versuchsanst. Obst.- , Wein- u. Gartenb. Wäderswil 1924-28. Landw. Jahrb. Schweiz. 44: 503-509. 1930. no.5.
See also his Krankheiten der gartenpflanzen: p.551-557; Krankheiten und schädling der reben: p.535-537; Versuche über die pilztötende wirkung des natriumbenzoates in obstsäften: p.519-521.

Lingnan Sci. Journ. (Lingnaam Agr. Rev.) (Canton,China)
Groff, G. W.
Gymnosperms of Kwangtung, China. Lingnan Sci. Journ. (Lingnaam Agr.Rev.) 9: 267-305. O. 1930. no.3.

McClure, F. A.
Tung oil in the Yangtsze valley. Lingnan Sci. Journ. (Lingnaam Agr.Rev.) 9: 233-250. illus., pl.12-19. O.1930. no.3.

Matières Grass.(Paris)

Pieraerts, J., Adriaens, L. & Castagne, E.
Contribution à l'étude du voandzou.
Matières Grass. 22: 9031-9032. D.15,1930.
no.272.
Voandzeia subterranea.

Pieraerts, J., Castagne, E. & Adriaens, L.
Contributions à l'étude chimique des légumineuses oléagineuses du Congo belge. 1. Le pois corail ou "Adenanthera pavonina" (fin). Matières Grass. 22: 9032-9034. illus. D.15,1930. no.272.

Mezögazd. Kutat. Budapest.

Hauser, J.
Adatok néhány nálunk elterjedtebb takarmányrépafeleség növekedésének összehasonlitására. (Vergleichende untersuchungen über den entwicklungsrythmus einiger futterrübensorten). Mezögazd. Kutat. Budapest 3: 483-491. D.1930. no.12.
Hungarian with German summary: p.491.

Missouri Bot. Gard. Bull. (St.Louis)

Beilmann, A.P.
A large shrub for the garden. Missouri Bot. Gard.Bull. 18: 157-158. pl.36-37. D.1930. no.10.
Ilex decidua.

Mycologia (Lancaster, Pa.)

Dodge, B. O.
Inheritance of the albinistic non-conidial characters in inter-specific hybrids in Neurospora. Mycologia 23: 1-50. pl. 1-7. (part. col.) Ja./F.1931. no.1.

Seaver, F.J.
A rare phalloid from the New York botanical garden. Mycologia. 23: 83-84. pl.8. Ja./F.1931. no.1.
Colus schellenbergiae.

Thurston, H.W., jr. & Kern, F.D.
Notes on some rust collections from Colorado, Wyoming, and South Dakota. Mycologia 23: 77-82. Ja./F. 1931. no.1.

Walker, L. B.
Studies on Ascoidea rubescens. I. History and development. Mycologia 23: 51-76. illus. Ja./. 1931. no.1.

Nachr. Schädlingsbekämpfung. (Leverkusan b. Köln a Rh.)

Niethammer, A.

Die dosis toxica und tolerata von uspulun-universal für einzelne landwirtschaftliche sämereien. Nachr. Schädlingsbekämpfung. 5: 172-176. D.1930. no.4.

Petersen,

Kastastrophales auftreten von getreidefuss-krankheiten bei roggen im dürresommer 1930. Nachr. Schädlingsbekämpfung. 5: 176-178. D. 1930. no.4.

Nat. Hort. Mag. (Washington,D.C.)

Abbey, F. M.

Fringed gentian. Nat. Hort. Mag. 10: 70-71. Ja.1931. no.1.

Armstrong, J.T.

Primulas. I. Nat. Hort. Mag. 10: 7-9. Ja.1931. no.1.

Correvon, H.

The sempervivums - les joubarbes. (cont.) Nat. Hort Mag. 10: 33-40. illus. Ja.1931. no.10.

Warner, M. F.

"Plant emigrants". Nat. Hort. Mag. 10: 10-12. illus. Ja.1931. no.1.

Nature (London)

Sreenivassaya, M.

Masking of spike-disease symptoms in Santalum album (Linn.) Nature 126: 957. D.20, 1930. no.3190.

The testing of wood preservatives. Nature 126: 921-922. D.13,1930. no.3189.

Report of a conference held in June, 1930 at the Biologische Reichsanstalt, at Berlin-Dahlem.

Naturwissensch. (Berlin)

Mez, C.

Der Königsberger stammbaum des pflanzenreichs. Naturwissensch. 18: 1125-1130. D.26, 1930. no.52.

Nederl. Kruidk. Arch. (Amsterdam)

Jansen, P. & Wachter, W.H.
Grassen langs de Zuiderzeekust. Nederl. Kruidk. Arch. 1930: 231-257. illus. no.3.

Jansen, P. & Wachter, W.H.
Lijst der plaatsen, omtrent welker plantengroei gegevens bestaan. Nederl. Kruidk. Arch. 1930: 258-287. no.3.
Floristische aanteekeningen xxvii.

Koopmans-Forstmann, D. & Koopmans, A.N.
Caltha-onderzoek in Friesland in 1929. Nederl. Kruidk. Arch. 1930: 193-214. no.3.

Koopmans-Forstman, D. & Koopmans, A.N.
Fluviatiele invloeden aan de Friese kust. Nederl. Kruidk. Arch. 1930: 288-320. 1930. no.3.

New Phytol. (London)

Arber, A.
Root and shoot in the angiosperms: a study of morphological categories. New Phytol. 29: 297-315. illus. D.6,1930. no.5.

Priestley, J.H.
Studies in the physiology of cambial activity. III. The seasonal activity of the cambium. New Phytol. 29: 315-354. D.3, 1930. no.5.

Singh, T. C. N.
Notes on vegetative reproduction in two mosses from Mussoorie. New Phytol. 29: 355-360. illus. D.8, 1930. no.5.
Philonotis turneriana, Bryum hemisphaericarpum.

New Zeal. Journ. Sci. & Techn. (Wellington, N.Z.)

Cunningham, G. H.
Terminology of the spore forms and associated structures of the rust fungi. New Zeal. Journ. Sci. & Techn. 12: 123-128. O.1930. no.2.

Nord. Jordbrugsforskn. (København)

Smith, F.
Om indflydelsen av kunstig og naturlig lys paa plantene. Nord. Jordbrugsforskn. 1930: 337-344. 1930. no.5.

Nord. Jordbrugsforskn. (cont.)
Thorsrud, A.
Hagebruksplantenes navn og nomenklatur. Nord. Jordbrugsforskn. 1930: 345-354. 1930. no.5.

Obst- u. Gemüseb. (Berlin)
Wartenberg, H.
Obstbauliche ernährungsfragen unter berücksichtigung der bodensäure. Obst- u. Gemüseb. 76: 192-195. illus. D.15, 1930. no.12.

Pharm. Zentralh. (Dresden)
Richter, J.
Der pulsschlag der pflanze. Pharm. Zentralhl. 71: 789-791. D.11, 1930. no.50.

Phil. Trans. Roy. Soc. London.
Lang, W.H. & Cookson, I.C.
Some fossil plants of early Devonian type from the Walhalla series, Victoria, Australia. Phil. Trans. Roy. Soc. London. Ser.B,219: 133-163. pl. 11-13. D.12,1930. no.B464.

Plant Physiology.
De Long, W.A., Beaumont, J.H. & Willaman, J.J.
Respiration of apple twigs in relation to winter hardiness. Plant Physiology 5: 509-534. illus. O.1930(Rec'd Ja.1931) no.4.

Gardner, F. E.
Useful device for evaporating alcohol from plant extracts. Plant Physiology 5: 617-619. illus. O.1930 (Rec'd Ja.1931) no.4.

Harriman, P. A.
Effect of various methods of storage on the chlorophyll content of leaves. Plant Physiology 5: 599-606. illus. O.1930(Rec'd Ja.1931) no.4.

Larson, A. H.
Wilhelm Hofmeister. Plant Physiology 5: 613-616. illus. O.1930(Rec'd Ja.1931) no.4.

Plant Physiology. (cont.)

Lund, E.J.
Electric correlation potentials in the leaf of Bryophyllum. Plant Physiology 5: 491-505. illus., pl.v-vii. O.1930(Rec'd Ja.1931) no.4.

Parker, K.W. & Sampson, A.W.
Influence of leafage removal on anatomical structure of roots of Stipa pulchra and Bromus hordeaceus. Plant Physiology 5: 543-553. illus. O.1930 (Rec'd Ja.1931) no.4.

Rea, H.E.
Callusing of cotton stem cuttings. Plant Physiology 5: 575-586. pl.viii. O.1930(Rec'd Ja.1931) no.4.

Thomas, W.
The feeding power of plants. Plant Physiology 5: 443-489. O.1930(Rec'd Ja.1931) no.4.

Welton, F.A., Morris, V.H. and Hartzler, A.J.
Distribution of moisture, dry matter, and sugars in the maturing corn stem. Plant Physiology 5: 555-564. illus. O.1930(Rec'd Ja.1931) no.4.

Welton, F.A. & Morris, V.H.
Effect of fertility on the carbohydrate-nitrogen relation in the soybean. Plant Physiology 5: 607-612. illus. O.1930(Rec'd Ja.1931) no.4.

Willaman, J.J. & Brown, W.R.
Carbon dioxide dissolved in plant sap and its effect on respiration measurements. Plant Physiology 5: 535-542. illus. O.1930 (Rec'd Ja.1931) no.4.

Planta Arch. Wiss. Bot. (Berlin)

Bunning, E.
Ueber die erregungsvorgange bei seismonastischen bewegungen. Planta Arch. Wiss. Bot. 12: 545-574. illus. D.11, 1930. no.3.

Tilzer, P.
Weitere phototropische untersuchungen. Planta Arch. Wiss. Bot. 12: 362-398. illus. D.11,1930. no.3.

Planta Arch. Wiss. Bot. (cont.)

Knapp, E.
Hepatikologische studien. I. Ist die entwicklung des lebermoosperianths von der befruchtung abhangig? Planta Arch. Wiss. Bot. 12: 354-361. D.11,1930. no.3.

Neukirchen, J.
Ueber die beeinflussung des tropistischen reizverhaltens von gramineenkoleoptilen durch chemische vorbehandlung des saatgutes. Planta Arch. Wiss. Bot. 12: 505-531. illus. D.11, 1930. no.3.

Niethammer, A.
Mikroskopie und mikrochemie bekannter heimischer fruchte. Planta Arch. Wiss. Bot. 12: 399-413. illus. D.11, 1930. no.3.

Prosina, M. N.
Ueber die von Cypripedilum-typus abweichende embryosackentwicklung von Cypripedilum guttatum Sw. Planta Arch. Wiss. Bot. 12: 532-544. illus. D.11, 1930. no.3.

Schönfelder, S.
Weitere untersuchungen über die permeabilität von Beggiatoa mirabilis nebst kritischen ausführungen zum gesamtproblem der permeabilität. Planta Arch.Wiss. Bot. 12: 414-504. illus., pl.vi-vii. D.11, 1930. no.3.

Schreiber, E.
Untersuchungen über parthenogenesis, geschlechtsbestimmung und bastardierungsvermogen bei laminarien. Planta Arch. Wiss. Bot. 12: 331-353. D.11, 1930. no 3.

Prakt. Ratg. Obst.- u. Gartenb. (Frankfurt, a.d.O.)

Garbers, Fr.
Vom sterben der ulmen. Prakt. Ratg. Obst.- u. Gartenb. 45: 497-499. illus. D.14,1930. no.50.

Proc. Imp. Acad. Tokyo.

Hideo, K.
Ueber die gewebeabnormität infolge von riesenkern- und riesenzellentstehung durch tauchung in kohlenteerlösung bei Pisum sativumwurzelspitze. Proc. Imp. Acad. Tokyo 6: 375-377. illus. N.1930. no.9.

Proc. Nat. Acad. Sci.

Emerson, S.

The inheritance of rubricalyx bud color in crosses with Oenothera lamarckiana. Proc. Nat. Acad. Sci. 15: 796-800. D.1930. no.12.

McClintock, B.

A cytological demonstration of the location of an interchange between two non-homologous chromosomes of Zea mays. Proc. Nat. Acad. Sci. 16: 791-796. illus. D.1930. no.12.

Proc. Univ. Durham Phil. Soc.

Blackburn, K.B. & Boult, J.J.

The status of the genus Saponaria and its near allies considered in the light of their cytology. Proc. Univ. Durham Phil. Soc. 8: 260-266. illus. Jl.1930. no.3.

Saponaria, Gypsophila, Vaccaria.

Harrison, H. H.

Some peculiarities in the chromosome behaviour of Euphorbia terracina. Proc. Univ. Durham Phil. Soc. 8: 252-259. illus. Jl.1930. no.3.

Harrison, J.W.H.

New British roses from Northumberland. Proc. Univ. Durham Phil. Soc. 8: 161-167. pl. Jl. 1930. no.3.

Miller, E. W.

A preliminary note on the cytology of the Melanthioideae section of the Liliaceae. Proc. Univ. Durham Phil. Soc. 8: 267-271. Jl.1930. no.3.

Richardson, M.M.

The chromosome numbers of some species and hybrids in the candelabra section of the genus Primula. Proc. Univ. Durham Phil. Soc. 8: 272-279. illus. Jl.1930. no.3.

Progr. Agr. & Vitic. (Montpellier)

Peyrac,

Exposé des traitements contre le mildiou en Charente. Progr. Agr. & Vitic. 96: 612-619. D.28,1930. no.52.

Progr. Agr. & Vitic. (cont.)
Ravaz, L.
A la recherche des causes d'inégale résistance d'une vigne au mildiou. Progr. Agr. & Vitic. 96: 596-597. D.21,1930. no.51.

Protoplasma (Leipzig)
Hammett, F. S.
The natural chemical equilibrium regulative of growth by increase in cell number. Protoplasma 11: 382-411. N.1930. no.3.
Experiments with Zea mays.

Marsh, G.
The effect of applied electric currents on inherent cellular E.M.F. and its possible significance in cell correlation. Protoplasma 11: 447-474. illus. N.1930. no.3.

Nord, F.F. & Weichherz, J.
Nachweis der durch acetylen bewirkten permeabilitatserhohung bei der gerste. Protoplasma 11: 440-446. pl.viii(col.) N.1930. no.3.
9. Mitteilung zum mechanismus der enzymwirkung.

Stiles, W.
Studies on toxic action I. Preliminary observations on the swelling and shrinkage of plant tissue in solutions of toxic substance. Protoplasma 11: 349-381, illus. N.1930. no.3.

Quart. Journ. Rubber Res. Inst. Malaya.
Beeley, F.
Notes on recent observations on Oidium heveae. Quart. Journ. Rubber Res. Inst. Malaya 2: 182-183. N.1930. no.3.

Queensl. Agr. Journ. (Brisbane)
Simmonds, J.H.
Brown spot of the passion vine. Queensl. Agr. Journ. 34: 564-585. illus. D.1,1930. no.6.
Macrosporium sp.

Rep. Mass. Fruit Grow. Assoc.

Magness, J. R.
Factors influencing the keeping quality of apples. Rep. Mass. Fruit Grow. Assoc. 36: 139-148. 1930.

Magness, J. R.
Factors influencing yield, size and quality of apples. Rep. Mass. Fruit Grow. Assoc. 38: 153-161. 1930.

Rev. Bryol. (Caen)

Camus, F.
Muscinées du département du Lot. Rev. Bryol. n.s., 3: 101-104. D.1, 1930. no.3.
Notes posthumes...reunies par Pierre Allorge, I.

Douin, C.
Les bifurcations principales et parfaites chez les hépatiques à feilles. Rev. Bryol. n.s. 3: 123-136. illus. D.1, 1930. no.3.

Woronoff, G.
Nouvelles contributions à la flore bryologique de la Caucasie. Rev. Bryol. n.s. 3: 105-122. D.1,1930. no.3.

Rev. Hort. (Paris)

Bellair, G.
Faits et commentaires: la mutualité chez les végétaux. Rev. Hort. 102: 285. D.16,1930. no.12.

Jarry-Desloges, R.
Passiflora edulis et autres P. a fruits comestibles. Rev. Hort. 102: 296-298. illus. D.16,1930. no.12.

Rev. Industr. y Agr. Tucuman (Buenos Aires)

Fawcett, G. L.
La clasificación de algunas antiguas variedades de caña con referencia al sistema Jeswiet. Rev. Industr. y Agr. Tucuman 20: 114-120. illus. D.1929/Ja.1930 (Rec'd Ja.1931) no.7/8.

Rev. Inst. Agr. d'Oka.

Documentation botanique. Exploration systématique des mauvaises herbes et autres plantes indigènes du Québec. Rev. Inst. Agr. d'Oka. 4: 187-189. N./D.1930; 5: 29-31. Ja./F.1931. no.6,1.

Rev. Vitic. (Paris)
Rozier, A.
Le black-rot. Rev. Vitic. 74: 5-10. col. pl. Ja. 1, 1931. no. 1905.

Schweiz. Zeitschr. Obst-u. Weinb. (Wadenswil)
Wiesmann, R.
Ueber schorfbefall der largerapfel. Schweiz. Zeitschr. Obst-u, Weinb. 39: 517-522. illus. D, 20, 1930. no. 26.

Science. (Lancaster, Pa.)
Johnson, J. & Hoggan, L. A.
The challenge of plant virus differentiation and classification. Science. 73: 29-32. Ja. 9, 1931. no. 1880.

Naylor, F.
Pen and ink drawings from photographs. Science. 73: 15. Ja. 2, 1931. no. 1879.

Sparrow, F. K. jr.
The classification of Pythium. Science. 73: 41-42. Ja. 9, 1931. no. 1880.
Pythium, Rhoosporangium, Phytophthora or Sphaerosporangium n. gen.

Scient. Agr. (Ottawa)
Greaney, F. J.
Sulphur dusting for the prevention of a bacterial disease of wheat called black chaff. Scient. Agr. 11: 274-280, illus. Ja. 1931. no. 5.

Kirk, L. E.
Inheritance of flower colour in a cross between white blossom and yellow blossom sweet clover (Melilotus albus Desr. x M. officinalis (L.) Desr.) Scient. Agr. 11: 265-273. Ja. 1931. no. 5.

Palmer, R. C.
Recent progress in the study of Jonathan breakdown in Canada. Scient. Agr. 11:243-258. illus. Ja. 1931. no. 5.

Sci. Proc. Roy. Dublin Soc.
Atkins, W.R.G. & Fenton, E.W.
The distribution of pasture plants in relation to soil acidity and other factors. Sci. Proc. Roy. Dublin Soc. 19: 533-547. O.1930. no. 46.

So. African Gard. (Johannesburg)

Bolus, L

Mesembrianthemum and allied genera. (cont.) So. African Gard. 20: 381-382. illus. D. 1930. no. 12.

So. Afr. Journ. Nat. Hist. (Pretoria)

Dyer, R. A.

A supposed hybrid Euphorbia. So. Afr. Journ. Nat. Hist. 6: 414-416. 1 pl. N. 1930. no. 5.

E. obesa x E. ferox.

Leemann, A.

General remarks on the question of pH in South Africa followed by some pH measurements at the Pretoria saltpan. So. Afr. Journ. Nat. Hist. 6: 394-401. illus. N. 1930. no. 5.

Rich. F.

Fresh water phyto-plankton. Illustrated by specimens from South Africa. So. Africa Journ. Nat. Hist. 6: 369-376. illus. N. 1930. no. 5.

Smith C.A.

Aster asper Auct. non. Nees. So. Afr. Journ. Nat. Hist. 6: 412-413. N. 1930. no. 5.

Aster bakerianus.

Stain Techn.

Buchholz, J. T.

The dissection staining and mounting of styles in the study of pollen-tube distribution. Stain Techn. 6: 13-24. illus. Ja. 1931. no. 1.

Chandler, C.

A method for staining pollen-tubes within the pistil. Stain Techn. 6: 25-26. Ja. 1931. no. 1.

Nebel, B. R.

Lacmoid-martius-yellow for staining pollen-tubes in the style. Stain Techn. 6: 27-29. illus. Ja. 1931. no. 1.

Succulents. (Leeuwarden)

Houten, J. M. van den.

Aloe's. IV. Succulenta. 13: 5-9. illus. Ja. 1931. no. 1.

Tijdschr. Plantenz. (Amsterdam)
Hus. P.
Proeven met verschillende middelen tegen appelschurft (Fusicladium dendriticum). Tijdschr. Plantenz. 36: 286-288. D. 1930. no. 12.

Torreya.
Benedict, R. C.
A laboratory lesson in variation. Torreya. 30: 145-152. illus. N.D. 1930. no. 6

McKee, A.
"Lily Pond lane" (A bit of Long Island ecology) Torreya. 30: 153-158. illus. N./D. 1930. no. 6.

Trop. Agriculture West Indies (Trinidad)
Wallace, G. B.
A coffee bean disease. A parasitic disease of coffee beans (cont.) Trop. Agriculture West Indies. 8: 14-17. Ja. 1931. no. 1.
Nematospora coryli.

U. S. Dept. Agr. Off. Rec.
Famous bacteriologist dies. U. S. Dept. Agr. Off. Rec. 10: 13. Ja. 8, 1931.
Dr. Felix Lohnis, died in Leipzig, Dec. 8, 1930.

U. S. Dept. Agr. Techn. Bull.
Marsh, C.D. & Clawson, A.B.
Mountain-laurel (kalmia latifolia) and sheep laurel (Kalmia angustifolia) as stock-poisoning plants. U. S. Dept. Agr. Techn. Bull. 219. 22 p. illus. D. 1930.

Univ. Calif. Publ. Agr. Sci. (Berkeley)
Avery, P.
Cytological studies of five interspecific hybrids of Crepis leontodontoides. Univ. Calif. Publ. Agr. Sci. 6: 136-167. illus. 1930. no. 5.

Univ. Calif. Publ. Bot. (Berkeley)
Holman, R.
On solarization of leaves. Univ. Calif. Publ. Bot. 16: 139-151. illus. 1930. no. 4.

V. 13, no. 1, p. 35.

Věstník Českosl. Akad. Zeměd. (Praha)

Dvořák, K.

Nový způsob dokazování dehtových a asfaltových poškozenin na rostlinách. (Eine neue methode für identifizierung der asphalt-und teerbeschädigung der pflanzen). Věstník Českosl. Akad. Zeměd. 6: 1053-1056. D. 1930. no. 10.

German summary.

Říha, J.

Výsledky pokusů se suchým a mokrým strojenim osiva. (Versuchsergebnisse nit trockenem und nassem saatgutbeizen). Vestník Českosl. Akad. Zeměd. 6: 1078-1079. D. 1930.no. 10.

German summary.

Urban, J.

Vliv odstranění plevelů na změnu stanovištnich poměrů jarin (L'influence de la destruction des nauvaises herbes dans les céréales de printemps sur le changement des conditions physiques du milieu.) Věstnik Českosl. Akad. Zeměd. 6: 1069-1073. D. 1930. no. 10.

French summary.

Vict. Nat. (Melbourne)

Coleman, E.

The elbow-orchid, Spiculaea ciliata Lindl. Vict. Nat. 47: 130-131. ilus. D.1930. no.8.

Nicholls, W.H.

A new Victorian sub-orchid, Thelymitra truncata Rogers. Vict.Nat. 47: 123-125. illus. D. 1930. no. 8.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Schlumberger, O.

Untersuchungen über den einfkluss von triebverlust und verletzung einiger landwirtschaftlicher Kulturpflanzen auf entwicklung und ertrag. Wiss. Arch. Landw. Abt. A. Pflanzenbau 5: 87-107. D.16, 1930. no.1

Zeitschr. Pflanzenkr. (Stuttgart)

Tubeuf, C.von.

Reproduktion der kiefer nach eulenfrass und ihre beurteilung in praktischen falle. Zeitschr. Pflanzenkr. 40: 574-610 incl. 21 pl. on 13. D. 1930 no. 12

Zeitschr. Pflanzenkr. (cont.)

Tubeuf, C. von

Die reproduktionsknospen der kiefer. Zeitschr. Pflanzenkr. 40: 561-573. illus. D. 1930. no. 12.

Zentralbl. Bakt. Abt. II (Jena)

Stevens, F. L.

The effects of ultra-violet irradiation on various Ascomycetes, Sphaeropsidales and Hyphomycetes. Zentralbl. Bakt. Abt. II, 82: 161-174. illus. D. 12, 1930. no. 8/14.

Exper. Stat. Publ.

Sampson, A. W. & Parker, K.W.

St. Johnswort on range lands of California. California Agr. Exp. Stat. Bull. 502. 48 p. illus. D.1930.

Hicker, G. J. & Pederson, C. S.

Studies on the Coccaceae XVI. The genus Leuconostoc. New York Agr. Exp. Stat. Techn. Bull. 167. 80 p. vi pl. on 2. Jl. 1930 (Rec'd D.)

Berly, J. A.

Protecting South Carolina from crop pests and plant diseases. South Carolina Agr. Exp. Stat. Circ. 43. 32 p. illus. O. 1930

State Publications.

Adams, J. F.

Report of the plant pathologist. Quart. Bull. Delaware State Bd. Agr. 20 (3): 34-37. illus. S. 30. 1930.

Chupp, C.

Diseases of garden vegetable crops. Bull. Dept. Agr. & Mark. New York. 240: 24-57. illus. Jl. 1930 (Rec'd Ja. 1931)

New Books.

Anufriev, G. I.

A short account of the stratigraphy and plant associations of sphagnous bogs in the environs of Leningrad. Leningrad, 1930.

2d international soil science congress.

New Books (cont.)

Bower, F. O.
Size and form in plants with special reference to the primary conducting tracts. London. Macmillan, 1930.

Braun-Blanquet, J. & Pavillard, J.
Vocabulary of plant sociology. Translated by F. R. Dharucha... Cambridge, 1930.

Butcher, R. W.
Further illustrations of British plants. Ashford, Kent, L. Reeve & Co., 1930.

Cowan, A. M. & Cowan, J. M.
The trees of northern Bengal including shrubs, woody climbers, bamboos, palms and tree ferns... Being a revision of the List of the trees, shrubs, in the Darjeeling District Bengal, by J. S. Gamble. Calcutta, Bengal secretariat book depot, 1929.

Gallöe, O.
Natural history of the Danish lichens. pt. I-III. Copenhagen, H. Aschehoug & Co., 1927-30.

Petrov, V. A.
... Flora Lakutiae. fasc. 1. Pteridophyta - Poaceae. Leningrad, 1930.
Ed. by V. L. Komarov.

Werner, H.
Der Kartoffelbau... 9. vollig neubearb. aufl. hrsg. von Kurt Opitz. Berlin, P. Parey, 1930. (Thaer-bibliothek 28. bd.)

Translations filed in Library of Bur. of Plant Industry.

Docberg, G.
Dibitrot en abnormale spruitontwikkeling ("glasahvorming") bij 2878 POJ ("Seed" rot and abnormale eye development of POJ 2878). Arch. Suikerind. Nederl.-Indie. 35: 789-791. Ag. 1927.

Dreda de Haan, J. van.
Ring-vlekkenziekten der rietbladen door Leptosphaeria sacchari n.sp. (Ring spot disease of cane leaves caused by Leptosphaeria sacchari n. sp.) In Meded. Proefst. Suikerr. West-Java. (3): 25-28. 1892.

V. 13, no. 1, p. 38.

Translations. (cont)

Jeswiet, J.

Beschriving der soorten van het suikerriet 3., 11. bijdrage. (Description of of sugar cane varieties. Contribution 3. Number of cane varieties which appear several times as mixtures in POJ 100: Loethers, Fidji, Wit Manilla, 100 Bruin, Rood D.N.G. and Kassoer. -11, Systematics). Arch. Suikerind. Nederl. Indie. 24: 1321-1349. 1916. 33 (3): 391-404.1925.

Lüdtke, M.

Beitrage zur kenntnis des stoffwechsels mosaikkranker und gesunder tabakpflanzen (Contributions to the knowledge of metabolism in mosaic and healthy tobacco plants). Phytopath. Zeitschr. 2: 341-359. 1930.

Wakker, J. H. & Went, F. C.

De ringvlekkenziekte veroorzaakt door Leptosphaeria sacchari, van Breda de Haan (The ring spot disease caused by Leptosphaeria sacchari) In their De ziekten van het suikerriet op Java. Leiden, 1898. p. 149-153.

Reprints from Journals not yet rec'd.

Blaauw, A. H.

Verschuiving der periodicite aanpassing en export voor het zuidelijk halfrond (hyacinth en tulp (Shifting of the periodicity, adaptation and export to the southern hemisphere (hyacinth and tulip). Reprinted from Verh. K. Akad. Wetensch. Amsterdam. 2 sect. v. 26, no. 7. as Meded. Lab. Plantenphysiol. Onderz. Wageningen. no. 8. 105 p. illus., 2 pl. 1930.

English summary.

Mulder, R. & Luyten, I.

De periodicke ontwikkeling van de Darwin-tulip (On the periodicity of the Darwin tulip) Reprinted from Verh. K. Akad. Wetansch. Amsterdam. 2 sect. v. 26, no. 3. as Meded. Lab. Plantenphysiol. Onderz. Wageningen. no. 16. 64 p. illus. 6 pl. 1928.

English summary.

Hartsema, A. M., Luyten, I. & Blaatuw, A. H.

De optimale temperaturen van bloemaanleg tot bloei (The optimal temperatures from flowerformation to flowering). Reprinted from Verh. K. Akad. Wetensch. Amsterdam. 2 sect. v. 27, no. 1, as Meded. Lab. Plantenphys. Onderz. Wageningen. no. 30. 46 p. illus. 6 pl. 1930.

Snelle bloei van Darwintulpen. II.

English summary.

Reprints. (cont.)

Tammes, P.M.L.
On the origin of number and arrangement of the places of exit on the surface of pollen-grains. Reprinted from Rec. Trav. Bot. Néerl. v. 27, as Proefschr. Groningen. 84 p. 1930.

Versluys, M. C.
Aanleg groei der wortels van Hyacinthus orientalis gedurende het geheele jaar en onder verschillende omstandigheden (Formation and growth of the roots of Hyacinthus orientalis, during the whole year and under different circumstances). Reprinted from Verh. K. Akad. Wetensch. Amsterdam. 2. sect. v.25, no. 4. as Meded. Lab. Plantenphys. Onderz. Wageningen. no. 25. 100 p. 12 pl. 1927.
English summary.

Zweede, A. K.
De periodieke ontwikkeling van Convallaria majalis. Reprinted from Verh. K. Akad. Wetensch. Amsterdam. 2. sect. v. 27, no. 2. as Meded. Lab. Plantenphysiol. Onderz. Wageningen. no. 29. 72 p. illus., 6 pl. 1930.
English summary.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no. 2. Ja. 19-31, 1931.

Acta Phytochim. (Tokyo)

Hattori, S.
Beiträge zur spektrographie der flavonreihe. III. Ueber die konstitution des wogonins Acta Phytochim. 5: 109-116. D.1930. no.2.

Kinoshita, K.
Ueber sparassol, einen bestandteil der wurzelrinde von Rhododendron japonicum. Acta Phytochim. 5: 157-165. D.1930. no.2.

Shibata, K. & Hattori, S.
Ueber den ort der glukuronsäurebindung im baicalin. Acta Phytochim. 5: 117-118. D.1930. no.2.

Agr. Journ. Brit. Guiana (Georgetown)

Martyn, E. B.
Botanical and mycological division. Annual report, 1929. Agr. Journ. Brit. Guiana 3: 226-223. D.1930. no.4.

Amer. Journ. Bot.

McCrea, A.
The reactions of Claviceps purpurea to variations of environment. Amer. Journ. Bot. 18: 50-78. pl. vii-viii. Ja. 1931. no.1.

Meyer, B. S.
Effects of mineral salts upon the transpiration and water requirement of the cotton plant. Amer. Journ. Bot. 18: 79-93. Ja.1931. no.1.

Schreiner, E. J.
Two species of Valsa causing disease in Populus. Amer. Journ. Bot. 18: 1-29. pl. i-v. Ja. 1931. no.1.
V. sordida & V. nivea.

Von Ohlen, F. W.
A microchemical study of soybeans during germination. Amer. Journ. Bot. 18: 30-49. pl.vi. Ja.1931. no.1.

Amer. Nat. (Lancaster, Pa.)

Babcock, E. B.
Cyto-genetics and the species-concept. Amer. Nat. 65: 5-18. Ja./F.1931. no.696

Nebel, B. R.
A thumb test for distinguishing mazzard (Prunus avium L.) and mahaleb (Prunus mahaleb L.) root-stocks. Amer. Nat. 65: 95-96. Ja./F. 1931. no.696.

Amer. Potato Journ.

Hurst, R. R.
Digging date and rhizoctonia control of potatoes. Amer. Potato Journ. 8: 15-16. Ja. 1931. no.1

Hurst, R. R.
Treating seed potatoes. Amer. Potato Journ. 8: 16-17. Ja.1931. no.1.

Newton, William
Virus diseases of potatoes in British Columbia. Amer. Potato Journ. 8: 13-15. Ja.1931. no.1.

Sanford, G. B.
The limitation of treatment for potato tubers against scab and rhizoctonia. Amer. Potato Journ. 8:11-13. Ja. 1931. no.1.

Angew.Bot. (Berlin)

Appel, O.
Beiträge zur kenntnis der physiologischen formen des weizengelbrostes. Angew. Bot. 12: 463-470. N./D. 1930. no.6.

Merjanian, A. S.
Ueber die dorsiventralität der weinrebe (Zur morphologie und biologie der gattung Vitis). Angew. Bot. 12: 470-502. illus. N./D. 1930. no.6.

Schmitt, N.
Derris elliptica Benth., ein vegetabilischer und ungiftiger insecticidlieferant. Angew. Bot. 12: 453-463. illus. N./D.1930. no.6.

Ann. Inst. Nat. Agron. (Paris)

Guérin, P.
Les légumineuses à acide cyanhydrique. Ann. Inst. Nat. Agron. II,23: 152-172. 1930.

Dufrenoy, J.
Les modifications pathologiques de la structure des cellules végétales. Ann. Inst. Nat. Agron. II, 23: 50-151. illus. 1930.

Fron, G. & Monchot,
Contribution a l'étude du pourridié du "jasmin". Ann. Inst. Nat. Agron. II, 23: 173-187. illus., pl.i-ii (pt.col.) 1930.

Viala, P. & Marsais, P.
Mycolithes (Lithomyces nidulans, spec. nov.) Ann. Inst. Nat. Agron. II, 23: 188-302. illus. 1930.

Ann. Mycol. (Berlin)

Ciferri, R.
Morphological relations of the genera of asporigenous yeasts. Ann. Mycol. 28: 372-376. 1930. no.5/6.

Hasler, A.
Beiträge zur kenntnis einiger Carex-puccinien. Ann. Mycol. 28: 345-357. 1930. no.5/6.
P. circaeae-caricis n.sp.

Petrak, F. & Ciferri, R.
Fungi dominicani. Ann. Mycol. 28: 377-420. 1930. no.5/6.

Poeverlein, H.
Die gesamtverbreitung der Uropyxis sanguinea in Europa. Ann. Mycol. 28: 421-426. 1930. no.5/6.

Sartory, A., Sartory, R. & Meyer, J.
Etude d'une nouvelle espèce d'Aspergillus: Aspergillus halophilus. Ann. Mycol. 28: 362-363. pl.iii. 1930. no.5/6.

Ann. Mycol. (cont.)

Sartory, A., Sartory, R. & Meyer, J.
Etude d'une nouvelle espèce de Sterigmatocystis: Sterigmatocystis albo-rosea. Ann. Mycol. 28: 358-359. pl. iii. 1930. no.5/6.

Sartory, A., Sartory, R., & Meyer, J.
Etude d'une nouvlle espèce de Sterigmatocystis: Sterigmatocystis cameleo. Ann. Mycol. 28: 360-361. pl. iii. 1930. no.5/6.

Stevens, F. L.
Parasitic fungi of British Guiana, Trinidad and Costa Rica. Ann. Mycol. 28: 364-371. illus. 1930. no.5/6.
Antennellopsis (A. mangiferae), Scoriadopsis (S.miconiae), Parascorias (P. byrsonimae), Doratöspora, (D. guianensis), Beccopycnidium (B. palmicolum) gen. nov., Guignardia ingae, Physalospora quadraspora, Colletotrichum catenulatum, C. toluiferae, Tubercularia nigra, n.spp.

Sydow, H.
Novae fungourm species XX. Ann. Mycol. 28: 432-447. 1930. no.5/6.

Sydow, H.
Ueber einige interessante deutsche, auf kompositen vorkommende puccinien. Ann. Mycol 28: 427-431. 1930. no.5/6.

Ann. R. Staz. Sper. Agr. Modena.

Draghetti, A.
Osservazioni e ricerche sulla resistenza alla ruggine dell' internodo superiore nel frumento. Ricerche genetiche e morfologiche. Ann. R. Staz. Sper. Agr. Modena n.s., 1: 69-121. pl.i-iii. 1930.

Ann. Agr. Exp. Stat. Chosen (Suigen, Chosen, Japan)

Hara, S.
Influence of the length of day on the shooting time and growth in rice. Ann. Agr. Exp. Stat. Chosen (Suigen, Chosen, Japan) 5:223-249. 2 pl. on 1. Ag.1930 (Rec'd Ja.1931) no.4.
In Japanese.

Ann. Rep. Dept. Agr. & Stock Queensland.
Simmonds, J. H.
Report of the plant pathologist. Ann. Rep. Dept. Agr. & Stock Queensl. 1929/30: 67. 1930.

Ann. Rep. Agr. Dept. Mysore (Bangalore)
Venkata, M. K.
Annual report of work done in the Mycological section during the year 1928-29. Ann. Rep. Agr. Dept. Mysore 1928/29(1/2): 18-21. 1930.

Ann. Rep. Dept. Sci. & Agr. Barbados.
Wiles, D. R. D.
Report of the plant diseases inspector for the year 1929/30. Rep. Dept. Sci. & Agr. Barbados. 1929/30: 115-117. 1930.

Anz. Schädlingsk. (Berlin)
Leibbrandt, F.
Untersuchungen über die pflanzenschäden durch arsenhaltige schädlingsbekämpfungsmittel. I. Ueber die ursache der pflanzenschäden durch arsenmittel. Anz. Schädlingsk. 6: 142-147. illus. 1930. no.12.

Arch. Bot. Sist., Fitogeogr. e Gen. (Forli)
Béguinot, A. & Landi, M.
L'endemismo nelle minori isole italiane ed il suo significato biogeografico. Arch. Bot. Sist., Fitogeogr. e Gen. 6: 247-316. D.1930. no.3/4.

Jäggli, M.
I muschi e le epatiche del Monte di Caslano. Arch. Bot. Sist., Fitogeogr. e Gen. 6: 232-246. D.1930. no.3/4.
Contributio alla briologia ticinese VI.

Lanzoni, F.
Agguinte alla flora parmense. Arch. Bot. Sist., Fitogeogr. e Gen. 6: 189-205. D.1930. no.3/4.

Morton, F.
Weitere beiträge zu einer pflanzengeographischen monographie der Quarneroinsel Cherso. Arch. Bot. Sist., Fitogeogr. e Gen. 6:206-231. D.1930. no.3/4.

Arch. Bot. Sist., Fitogeogr. e Gen. (Cont.)

Migliorato, E.
Notizie su di un autotipo di "Halymeda lessoni" Bory et Chauv. Arch. Bot. Sist. Fitogeogr. e. Gen. 6: 317-318. illus. D.1930. no.3/4.
Halimeda tuna.

Arch. Exp. Path. u. Pharm. (Leipzig)

Nolle, J. E.
Phytopharmakologische studien. Zur pharmakologische studien. Zur pharmakologie der mistel (Viscum album). Arch. Exp. Path. u. Pharm. 158: 90-107. illus. D.1930.

Ber. Deut. Bot. Ges. (Berlin)

Bertsch , K.
Die diluviale flora der schwäbischen Alb. Ber. Deut. Bot. Ges. 48: 365-373. D.29, 1930. no.9.

Bothe, F.
Ein neuer einheimischer leuchtpilz. Ber. Deut. Bot. Ges. 48: 394-399. illus. D.29,1930. no.9.
Mycena tintannabulum.

Budde, H.
Die mesohaloben und halophilen diatomeen der Lippe in Westfalen. Ber. Deut. Bot. Ges. 48: 415-419. D.29, 1930. no.9.

Czaja, A. T.
Die analyse der metachromatischen färbungen von pflanzengewebe mit organischen farbstoffen. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (100)-(104). D.11, 1930. no.1.

Dixon, H. H.
Ueber die saugkraft. Ber. Deut. Bot. Ges. 48: 428-432. illus. D.29, 1930. no.9.

Fischer, E.
Bermerkungen über die verwandtschaftsverhältnisse der phalloideen. Ber. Deut. Bot. Ges. 48: 407-414. D.29, 1930. no.9.

Klebahn, H.
Penicillium ehrlichii, ein bemerkenswerter neuer schimmelpilz. Ber. Deut. Bot. Ges. 48: 374-389. illus. D.29,1930. no.9.

Ber. Deut. Bot. Ges. (cont.)

Laibach, F.
Kreuzungsschwierigkeiten bei pflanzen und die möglichkeiten ihrer behebung. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (58)-(77). D.11, 1930. no.1.

Lilienstern, M.
Erschwerte wasserversorgung als einer der faktoren der sexuellen fortpflanzung bei Marchantia polymorpha L. Ber. Deut. Bot. Ges. 48: 390-393. illus. D.29, 1930. no.9.

Mildbraed, J.
Zusammensetzung der bestände und verjüngung im tropischen regenwald. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (50)-(57). D.11,1930. no.1.

Mothes, K.
Morphologische und physiologische studien an der cladophoracee Pithophora. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (110)-(121). pl. iv. D.11, 1930. no.1.

Oppenheimer, H. R.
Kritische betrachtungen zu den saugkraftmessungen von ursprung und blum. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (130)-(140). D.11, 1930. no.1.

Pringsheim, E. G.
Die gestalt der plasmaorgane. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (78)-(80). D.11, 1930. no.1.

Schwarz, W.
Ueber die entwicklungsmechanik der panaschierungen. Ber. Deut. Bot. Ges. 48(General versamml.-heft): (105)-(109). D.11, 1930. no.1.

Seckt, H.
Algenforschung in Argentinien. II. Ber. Deut. Bot. Ges. 48: 420-427. D.29, 1930. no.9.

Silberschmidt, K.
Der einfluss der mosaikkrankheit auf den nikotingehalt der tabakspflanze. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (122)-(129). illus. D.11, 1930. no.1.

Ber. Deut. Bot. Ges. (cont.)

Stomps, T. J.
Die entfaltung der Oenotheraknospe. Ber. Deut. Bot. Ges. 48: 432-436. D.29, 1930. no.9.

Troll, W.
Ueber die sogenannten atemwurzeln der mangroven. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (81)-(99). illus., pl. i-iii. D.11,1930. no. 1.

Tschermak, E.
Neue beobachtungen am fertilen artbastard Triticum turgidovillosum. Ber. Deut. Bot. Ges. 48: 400-407. D.29, 1930. no.9.

Zimmermann, W.
Der baum in seinem phylogenetischen werden. Ber. Deut. Bot. Ges. 48(Generalversamml.-heft): (34)-(49) illus. D.11, 1930. no.1.

Biochem. Zeitschr. (Berlin)

Chrzaszcz, T. & Tiukow, D.
Biochemische umbildungen der essigsäure durch schimmelpilze und über den chemismus der citronensäurebildung. Biochem. Zeitschr. 229: 343-357. D. 24, 1930. no.4/6.

Neuberg, C. & Kobel, M.
Studien an tabak-enzymen. Biochem. Zeitschr. 229: 455-463. D.24, 1930. no.4/6.

Neuberg, C. & Kobel, M.
Ueber den kohlenhydratstoffwechsel der höheren pflanzen. Die bildung von methylglyoxal durch enzyme der gekeimten samen. Biochem. Zeitschr. 229: 433-442. D.24, 1930. no.4/6.

Bol. Agencia Geral. Colón. Portugal. (Lisboa)

Figueiredo Gomes e Sousa, A. de.
Contribuição para o estudo da flora do distrito de Mossâmedes. Bol. Agencia Geral. Colón. Portugal. 6: 41-64. illus. N.1930. no.65.

Bol. Agr. Tecn. & Econ. Spain. (Madrid)

Dubois, P.
La podredumbre de las patatas. Bol. Agr. Tecn. & Econ. Spain. 22: 465-471. Nov.1930. no. 263.

Boll. Soc. Ital. Biol. Sper. (Napoli)
Colla, S. & Danin, Z.
Variazioni di pressione osmotica in alcuni basidiomiceti. Boll. Soc. Ital. Biol. Sper. 5: 885-887. 1930. no.6.

Bot. Arch. (Leipzig)
Christiansen, W.
Die mitteldeutschen formenkreise der gattung America. Bot. Arch. 31: 247-265. illus. D. 1930. no.1/2.
English abstract: p.264.

Gauger, W. & Ziegenspeck, H.
Untersuchungen über die sukzessionsbiologie eines ombrogenen hochmoores (Zehlau). Bot. Arch. 31: 197-246. illus. D.1930. no.1/2.

Pohlenz, W.
Untersuchungen über den einfluss des nährstoffgehaltes der ausaat auf die bestimmung der im boden vorhandenen nahrstoffmengen (-"b" im wirkungsgesetze). Bot. Arch. 31: 141-196. illus. D. 1930. no.1/2.
English abstract: p.194-195.

Ruff, O.
Zur phylogenie des columniferen-astes der dikotylen. Bot. Arch. 31: 1-140. illus. D.1930. no.1/2.
English abstract: p.139.

Brooklyn Bot. Gard. Leafl.
Graves, A. H.
Forms and functions of roots. Brooklyn Bot. Gard. Leafl. v.18, no.9/10. 8 p. illus. D.17,1930.

Bryologist (Pittsburg)
Blomquist, H. L.
Archegonial plants of Tortula pagorum (Milde) de Not. in North Carolina. Bryologist. 33: 41-43. illus. Jl. 1930 (Rec'd Ja.1931) no.4.

Bryologist (cont.)

Grout, A. J.
A fossil form of Drepanocladus fluitans Jeanbernati (Ren.) Grout. Bryologist 33: 33. My. 1930 (Rec'd Ja.1931) no.3.

Grout, A. J.
A new species of Rhynchostegiella from the southern United States. Bryologist 33: 28. pl.iv. My.1930 (Rec'd Ja.1931) no.3.
Rhynchostegiella georgiane.

Sharp, A. J.
Bryophytes of southeastern Oklahama. I. A preliminary list with notes. Bryologist 33: 45-55. Jl. 1930 (Rec'd Ja.1931) no.4.

Svihla, R. D.
Some mosses from southern Louisiana. Bryologist. 33: 29-30. My.1930 (Rec'd Ja.1931) no.3.

Williams, R. S.
Pleistocene mosses from Minneapolis, Minnesota. Bryologist 33: 33-36. pl.v. My.1930. (Rec'd Ja.1931) no.3.
Drepanocladus minnesotensis n.sp., Neocalliergon gen. nov., N.integrifolium.

Williams, R. S.
Some deep-water mosses. Bryologist 33: 32. My. 1930 (Rec'd Ja.1931) no.3.
Drepanocladus fluitans subemersus f. filiformis, over 62 ft. below surface, also Fontinalis antipyretica at about same depth.

Zahlbruckner, A.
A new Haematomma from Florida. Bryologist 33: 31. My.1930 (Rec'd Ja.1931) no.3.
H. rappii.

Bull. Agence Gén. Colon. France. (Paris)

Heim de Balsac, F., Heim de Balsac, H. & Jamet, A.
Palétuviers de Madagascar, leurs écorces tannifères. Études complementaires. II. L'honkolahy et son écorce (Rhizophora mucronata Lam.) - Le tsitolona et son écorce (Bruguiera gymnorrhiza Lam.) Bull. Agence Gén. Colon. France. 23: 1176-1194. 5 pl. D.1930. no.262.

Bull. Agr. Chem. Soc. Jap. (English abstracts of articles in Japanese appearing in the Journal of the Society.)

Sumiki, Y.

Studien über die gärungsprodukte der schimmelpilze. VIII. Aspergillus glaucus (III). Bull. Agr. Chem. Soc. Japan. 6: 105-106. O./D.1930. no.10/12.

Bull. Bern. P. Bishop Mus. (Honolulu)

Gillespie, J. W.

New plants from Fiji, I. Bull. Bern. P. Bishop Mus. 74. 99 p. incl. plates. 1930.

Bull. Dept. Agr. Bombay. (Poona)

Cheema, G. S. & Dani, P. G.

Papaya cultivation in the Bombay presidency (excluding Sind). Bull. Dept. Agr. Bombay. 162. 22 p. illus. 1930.

Bull. Econ. Indochine. Sect. B.

Bửu-Liêm,

Nomenclature des variétés de riz de l'Annam. Bull. Econ. Indochine. 33:751B-870B. O.1930-B.

Bull. Gard. Club. Amer.

Wister, J. C.

Some daffodil comparisons. Bull. Gard. Club. Amer. 4(13): 5-27. Ja. 1931.

Bull. Imp. Inst. Gt. Brit. (London)

The fat and oil of Sapium sebiferum seeds. Bull. Imp. Inst. Gt. Brit. 28: 429-434. Ja.1931. no.4.

Pyrethrum flowers from Kenya and Cyprus. Bull. Imp. Inst. Gt. Brit. 28: 425-429. Ja.1931. no.4.

Recent investigations of paper-making materials. Bull. Imp. Inst. Gt. Brit. 28: 411-424. Ja.1931. no.4.

Eperua falcata, Xerotes longifolia, Typha angustifolia, Phragmites vulgaris.

Tanning materials of New Zealand. Bull. Imp. Inst. Gt. Brit. 28: 450-453. Ja.1931. no.4.

Phyllocladus trichomanoides, Weinmannia racemosa, W. silvicola, Fagus fusca, Coriaria ruscifolia, Acadia spp.

Bull. Min. Agr. Egypt. Techn. & Sci. Serv.

Morris, G. P. & Kosheiry, M. A.
A concise account of barley breeding 1921-1929. Bull. Min. Agr. Egypt. Tech. & Sci. Serv. 102. 19 p. pl. i-iii, map. 1930.

Morris, G. P. & Dib, M. El.
A summary of rice breeding work 1921-29. Bull. Min. Agr. Egypt. Techn. & Sci. Serv. 98. 15 p. 7 pl. (1 fold.) 1930.

Bull. Soc. Hist. Nat. Afr. Nord. (Alger)

Gauthier-Lièvre, L. E.
Note d(algologie marocaine. Bull. Soc. Hist. Nat. Afr. Nord. 21: 189-192. pl. xviii. N.1930. no. 8.

Giroux, M.
Sur la carpologie de quelques composées nord-africaines. Bull. Soc. Hist. Nat. Afr. Nord. 21: 161-188. illus., pl. xiii-xvii. N.1930. no.8.

Bull. Torr. Club.

Berry, E. W.
A new Miocene Cercis from Idaho and Washington. Bull. Torrey Club. 57: 239-243. illus., pl. 9. Ap. 1930 (Rec'd Ja. 1931) no.4.
C. idahoensis.

Collins, G. N.
The phylogeny of maize. Bull. Torr. Club. 57: 199-210 Ap. 1930 (Rec'd Ja.1931) no.4.

Durrell, L. W.
The pathology of maize. Bull. Torrey Club. 57: 233-237. Ap.1930 (Rec'd Ja.1931) no.4.

Killip, E. P. & Smith, A. C.
The South American species of Viburnum. Bull. Torrey Club. 57: 245-258. Ap.1930 (Rec'd Ja. 1931) no.4.

Lindstrom, E. W.
The genetics of maize. Bull. Torrey Club. 57: 221-231. Ap.1930 (Rec'd Ja.1931) no. 4.

Weatherwax, P.
The ontogeny of the maize plant. Bull. Torrey Club. 57: 211-219. Ap.1930 (Rec'd Ja.1931) no.4.

Chem. Umschau. (Stuttgart)
Ivanow, S., Saltschinkin, A. P. & Worobjew, A. S.
Die pflanzenöle der U.d. S.S.R. VI. Die oele der kruziferen im zusammenhang mit den klimatischen bedingungen ihrer heimat. Chem. Umschau. 37: 349-354. D.13, 1930, no.25/26.

Compt. Rend. Acad. Agr. France. (Paris)
Gervais, P.
De la valeur des "traitements d'assurrance" dans la lutte contre les ennemis de la grappe. Compt. Rend. Acad. Agr. France. 16: 1103-1106. D.24, 1930. no.33.

Compt. Rend. Acad. Sci. Paris.
Blaringhem, L. & Chopin, M.
Sur la régularité du régime des tensions superficielles des latex frais d'Euphorbia lathyris. Compt. Rend. Acad. Sci. Paris. 191: 1408-1410. D.29, 1930. no.26.

Meunier, A.
Recherches sur les variations de coloration des plantes au cours de leur dessiccation. Le chromogène de l'Orobus niger L. est l'arbutoside (arbutine) Compt. Rend. Acad. Sci. Paris. 191: 1471-1473. D.29,1930. no.26.

Compt. Rend. Soc. Biol. Paris.
Dusi, H.
Pouvoir de synthèse de quelques euglènes: euglènes autotrophes et euglènes hétérotrophes, Compt. Rend. Soc. Biol. Paris. 105: 837-840. Ja.18, 1931. no.36.

Cytologia (Tokyo)
Darlington, C. D.
Chromosome studies in Fritillaria. III. Chiasma formation and chromosome pairing in Fritillaria imperialis. Cytologia. 2: 37-55. illus. D.1930. no.1.

Kisser, J.
Die verwendung von eau de Javelle und wasserstoffsuperoxyd als mazerationsmittel für pflanzengewebe. Cytologia. (Tokyo) 2: 56-62. D.1930. no.1.

Cytologia. (cont.)

Pfeiffer, H.
Ueber einige experimente mit indicatoren und anderen farbstoffen an plasmatropfen und nackten protoplasten aus reifen beeren von Solanum nigrum. Cytologia. (Tokyo) 2: 67-76. D.1930. no.1.

Selim, A. G.
A cytological study of Oryza sativa L. Cytologia. 2: 1-26. illus. D.1930. no.1.

Sinotô, Y.
The chromosomes of Makinoa crispata, Miyake. Cytologia. (Tokyo) 2: 81-84. illus. D.1930. no.1.

Wakayama, K.
Contributions to the cytology of fungi. II. Cytological studies in Morchella deliciosa Fr. Cytologia. (Tokyo) 2: 27-36. pl. 1-2. D.1930. no.1.

Ecol. Monogr. (Durham)

Marshall, R.
An experimental study of the water relations of seedling conifers with special reference to wilting. Ecol. Monogr. 1: 39-98. Ja.1931. no.1.

Ecology. (Brooklyn, N.Y.)

Blizzard, A. W.
Plant sociology and vegetational change on High Hill, Long Island, New York. Ecology. 12: 208-231. illus. Ja.1931. no.1.

Cottle, H. J.
Studies in the vegetation of southwestern Texas. Ecology. 12: 105-155. illus. Ja.1931. no.1.

Evans, M. W.
Relation of latitude to time of blooming of timothy. Ecology. 12: 182-187. Ja.1931. no.1.

Klyver, F. D.
Major plant communities in a transect of the Sierra Nevada Mountains of California. Ecology. 12: 1-17. illus., fold. map. Ja.1931. no.1.

Waksman, S.A. & Gerretsen, F.C.
Influence of temperature and moisture upon the nature and extent of decomposition of plant residues by microorganisms. Ecology. 12: 33-50. illus. Ja.1931. no.1.

Ernähr. Pflanz. (Berlin)
Böning, K.
Die bekämpfung der wildfeuerkrankheit des tabaks vom standpunkte der ernährung und düngung. Ernähr. Pflanz. 27: 11-17. illus. Ja.1,1931. no.1.

Facts about Sugar. (New York)
Brandes, E.W.
A sugar cane variety garden in Porto Rico. Facts about sugar 26: 74-75. F.1931. no.2.
United States Bureau of Plant industry established nucleus for reference collection of original cane varieties.

Forestry (Gt. Brit.) (London)
Rayner, M. C.
Observations on Armillaria mellea in pure culture with certain conifers. Forestry (Gt. Brit.) 4: 65-77. pl. ii-iii. D.1930. no.2.

Fortschr. Landw. (Vienna)
Mayr, E.
Die osmotischen werte einiger weizen-landsorten im vergleiche zu ihrer keimungsgeschwindigkeit und vegetationszeit. Fortschr. Landw. 6: 47-50. Ja.15, 1930. no.2.

Gard. Chron. (London)
Brown, N.C.
Mesembryanthemum. - Rabiea. Gard. Chron. III, 89: 53-54. Ja.17,1931. no.2299.

Durham, H. E.
The mistletoe. Gard. Chron. II, 89: 30. Ja.10, 1931. no.2298.

Friend, H.
Horticulture in relation to commerce. Second series. IV. Gums and resins. (concl.) Gard. Chron. III, 89: 49-50. Ja.17, 1931. no.2299.

Green, D. E.
Ink disease of iris. Gard. Chron. III, 89: 55. illus. Ja.17,1931. no.2299.
Mystrosporium adustum.

Gard. Chron. (cont.)

Grove, A.
Lilies in 1930. Gard. Chron. III, 89: 28-29. illus. Ja.10,1931. no.2298.

Ingram, C.
Gladiolus eximius n.sp. Gard. Chron. III, 89: 46. illus. Ja.17, 1931. no.2299.

Ogilvie, L. & Mulligan, B. O.
A leaf spot disease of lettuce due to Pleospora herbarum. Gard. Chron. III, 89: 35. illus. Ja.10, 1931. no.2298.

Small, J.
Revelations of a pocket-lens. II. Gard. Chron. III, 89: 46-47. illus. Ja.17, 1931. no.2299.

Ward, F.K.
The Roosevelt expedition in French Indo-China. VIII. Mong Wa to the Mekong. Gard. Chron. III, 89: 48-49. illus. Ja.17,1931. no.2299.

Horticulture (Boston)

Pellett, F. C.
The wild orange lily. Horticulture 9: 26. Ja.15, 1931. no.2.
Lilium philadelphicum, a prairie plant in the Middle West.

Indische Cult. (Soerbaja)

Eenige houtsoorten uit Guyana (cont.) Indische Cult. 15: 982-988. D.16, 1930. no.24.

Planten door mieren bewoond. Indische Cult. 15: 961-964. illus. D.16, 1930. no.24.

Ital. Agr. (Milan)

Crescini, F.
Osservazioni e ricerche sperimentali intorno alla prefioritura della canapa. Ital. Agr. 67: 695-699. O.1930. no.10.

Crescini, F.
La spiga del mais organo di riserva per l' acqua. Ital. Agr. 67: 773-775. N.1930. no.11.

Ital. Agr. (cont.)

Passerini, N.
Il "riscolo" come coltura ortiva. Ital. Agr. 67: 719-722. illus. N.1930. no.11.
Salsola soda.

Izv. Akad. Krupn. Sots. Sel. Khoz. K.A. Timiriazeva (Journ. Acad. Soc. Agron. K.A. Timiriaseff) (Moskva)

D'iakonov, A.P.
Kanatomii konoplianogo stablia (On the anatomy of the hemp-stalk). Izv. Akad. Krupn. Sots. Sel. Khoz. K.A. Timiriazeva (Journ. Acad. Soc. Agr. K.A. Timiriaseff) 5: 60-65. illus. 1930.
Russian.

Klechetov, A. N.
Neskol'ko slov o novykh gribakh na l'ne (Some words about new fungi on the flax). Izv. Akad. Krupn. Sots. Sel. Khoz. K.A. Timiriazeva (Journ. Acad. Soc. Agr. K.A. Timiriaseff) 5: 66-67. 1930.
Russian.

Klechetov, A. N.
Posevnoe semia i pochva kak istochniki zarazheniia l'na (Seeds and soil as sources of flax infection) Izv. Akad. Krupn. Sots. Sel. Khoz. K.A. Timiriazeva (Journ. Acad. Soc. Agr. K.A. Timiriaseff) 5: 69-81. 1930.
Russian.

Klubov, V.S. & Maslova, N.L.
Obsledovanie morfologicheskikh i fiziko-mekhanicheskikh priznakov l'nianykh steblei (Investigation of morphological and physicomechanical signs of flax stalks). Izv. Akad. Krupn. Sots. Sel. Khoz. K.A. Timiriazeva (Journ. Acad. Soc. Agr. K.A. Timiriaseff) 5: 114-123. 1930.
Russian.

Ritus, I.G.
K voprocu o vliianii sornykh rastenii - Camelina linicola Sch. et sp. i Lolium linicola Sond. - na urozhai l'na-dolguntsa (On the influence of weeds - Camelina linicola and Lolium linicola - on the fibre-flax). Izv. Akad. Krupn. Sots. Sel. Khoz. K.A. Timiriazeva (Journ. Acad. Soc. Agr. K.A. Timiriaseff) 5: 82-98. illus. 1930.
Russian.

Jahrb. Wiss. Bot. (Leipzig)

Cholodny, N.

Mikropotometrische untersuchungen über das wachstum und die tropismen der koleoptile von Avena sativa. Jahrb. Wiss. Bot. 73: 720-758. 1930. no.5.

Schmucker, T.

Ueber assimilationder kohlensäure in verscheidenen spektralbezirken (Die energieaufnahme als quantenvorgang). Jahrb. Wiss. Bot. 73: 824-852. illus. 1930. no.5.

Experiments with Cabomba caroliniana & Cryptocoryne ciliata.

Schumacher, W.

Untersuchungen über die lokalisation der stoffwanderung in den leitbündeln höherer pflanzen. Jahrb. Wiss. Bot. 73: 770-823. illus. 1930. no.5.

Umrath, K.

Ueber erregungsleitung bei keimlingen und jangen pflanzen. Jahrb. Wiss.Bot. 73: 759-769. illus. 1930. no.5.

Mimosa pudica, Neptunia oleracea, Caragana arborescens, Phaseolus vulgaris.

Umrath, K.

Ueber erregungssubstanzen. Jahrb. Wiss. Bot. 73: 705-719. 1930. no.5.

Journ. Agr. Res. (Washington, D.C.)

Artschwager, E.

A comparative study of the stem eqidermis of certain sugarcane varieties. Journ. Agr. Res. 41: 853-865. illus., 1 col.pl. D.15,1930 (Rec'd Ja.15, 1931) no.12.

Bryan, M.K.

Studies on bacterial canker of tomato. Journ. Agr.Res. 41: 825-851. illus., 1 col.pl. D.15, 1930 (Rec'd Ja.15,1931) no.12.

Longley, A.E. & Clark, C.F.

Chromosome behaviour and pollen production in the potato. Journ. Agr. Res. 41: 867-888. illus., 2 pl. D.15,1930 (Rec'd Ja.15,1931) no.12.

Journ. Amer. Pharm. Assoc. (Easton, Pa.)

Burlage, H.M.
Phytochemical studies of several Oregon plants. I- Journ. Amer. Pharm. Assoc. 20: 33-40. Ja.1931. no.1.
Artemisia heterophylla, Heracleum lanatum, Melissa officinalis, Micromeria douglasii.

Lehman, A.J. & Lynn, E.V.
The leaf oils of Washington conifers: V. Picea sitchensis. Journ. Amer. Pharm. Assoc. 20: 29-32. Ja.1931. no.1.

Journ. Amer. Soc. Agron.(Geneva,N.Y.)

Alway, F.J.
Early trials and use of reed canary grass as a forage plant. Journ. Amer. Soc. Agron. 23: 64-66. Ja.1931. no.1.

Johnston, C. O.
Effect of leaf rust infection on yield of certain varieties of wheat. Journ. Amer. Soc. Agron. 23: 1-12. Ja.1931. no.1.

Rosenquist, C. E.
The immediate effect of foreign pollen upon the kernel weight of wheat (Triticum vulgare) Journ. Amer. Soc. Agron. 23: 43-63. illus. Ja.1931. no.1.

Rowley, H. K.
When to treat quackgrass most effectively with chlorates. Journ. Amer. Soc. Agron. 23: 41-42. Ja.1931. no.1.

Journ. Bot.(London)

Dixon, H.N.
New genera of Asiatic mosses. Journ. Bot. 69: 1-7. pl. 595. Ja.1931.no.817.
Microtheciella (M.kerrii) Sclerophynum (S. riparium), Hydrocryphaea, (H. wardii), Isocladiella (I. phyllogonioides,), Orthotheciadelphus (O. ovicarpus), Nanothecium (N. foreaui) gen.nov.

Journ. Bot. (cont.)

Fernald, M.L.
Some rare plants of Scotland. Jour. Bot. 69: 8-10. Ja.1931. no.817.
Malaxis paludosa, Pinguicula lusitanica, Scirpus hudsonianus, Eriophorum opacum, Antennaria hyperborea and others.

Novitates africanae (cont.) Journ. Bot. 69: 10-15. Ja.1931. no.817.

Ramsbottom, J.
Charles Edward Moss (1872-1930). Journ. Bot. 69: 20-23. Ja.1931. no.817.

Rendle, A. B.
Ernest Henry Wilson (1876-1930). Journ. Bot. 69: 182-. Ja.1931. no.817.

Wolley-Dod, A.H.
A revision of the British roses(cont.) Journ. Bot. v.69. suppl. p. 17-24. Ja.1931. no.817.

Journ. Cactus & Succ. Soc. Amer.

Baxter, E. M.
Notes on Opuntia pycnantha. Journ. Cactus & Succ. Soc. Amer. 2: 386-388. illus. Ja.1931. no.7.

Britton, N. L.
Note on Pilocereus straussii. Journ. Cactus & Succ. Soc. Amer. 2: 397. illus. Ja.1931. no.7.

Brown, N. E.
A strange new plant, Maughania insignis N.E. Br. Journ. Cactus & Succ. Soc. Amer. 2:389-390. illus. Ja.1931. no.7.

Gates, H. E.
Ferocactus rectispinus. Journ. Cactus & Succ. Soc. Amer. 2: 390-391. illus. Ja.1931. no.7.

Manning, J.
The cactacean's primer. Outline of familiar cacti (cont.) Journ. Cactus & Succ. Soc. Amer. 2: 392-394. illus, Ja.1931. no.7.

Journ. Counc. Sci. Industr. Res. Australia. (Melbourne)
Carne, W.M., Pittman, H. A., & Elliott, H. G.
Notes on wastage of non-parasitic origin in stored apples. (cont.) Journ. Counc. Sci. Industr. Res. Australia. 3: 193-203. N.1930. no.4.

Journ. Dept. Agr. So. Australia. (Adelaide)
Samuels, G.
Tomato diseases in South Australia and how to control them with special reference to glasshouse tomato culture. Journ. Dept. Agr. So. Australia. 34:499-510. illus. D.15, 1930. no.5.
This concludes the portion on fungus diseases.

Journ. Dept. Agr. Victoria. (Melbourne)
Strickland, A. G.
Tomato investigations at Bendigo. Report on season 1929-30. Journ. Dept. Agr. Victoria. 28: 715-729. illus. D.1930. no.12.
Fungus and virus diseases: p.722-725.

Journ. For. (Washington, D.C.)
Lutz, H.J.
Original forest composition in northwestern Pennsylvania as indicated by early land survey notes. Journ. For. 28: 1098-1103. D. 1930. no.8.

Journ. Genetics (London)
Marsden-Jones, E. M.
The genetics of Geum intermedium Willd. Haud Ehrh., and its back-crosses. Journ. Genetics. 23: 377-395. pl. xii-xv(1 col.), map. D.1930. no.3.

Sömme, A. S.
Genetics and cytology of the tetraploid form of Primula sinensis. Journ. Genetics. 23: 447-509. illus., pl. xix-xxiv(2 col.) D.1930. no.3.

Journ. Gen. Physiol. (Baltimore)
Osterhout, W.J.V. & Hill, S.E.
The death wave in Nitella. III. Transmission. Journ. Gen. Physiol. 14: 385-392. illus. Ja.20, 1931. no.3.

Journ. Linn. Soc. Bot. (London)
Pugsley, H. W.
A revision of the British Euphrasiae. Journ. Linn. Soc. Bot. 48: 467-543. pl.26-37. D.31, 1931. no.324.

Journ. Linn. Soc. Bot. (cont.)

Renkema, H. W. & Ardagh, J.

Aylmer Bourke Lambert and his "Description of the genus Pinus." Journ. Linn. Soc. Bot. 48: 439-466. D.31, 1930. no.324.

Other publications of Lambert: p.465-466.

Journ. N.Y. Bot. Gard.

Rusby, H. H.

Will our chestnut tree return? Journ. N.Y. Bot. Gard. 32: 11-13. illus. Ja.1931. no.373.

Small, J.K.

The brittle-thatch, Thrinas microcarpa. Journ. N.Y. Bot. Gard. 32: 1-6. illus. Ja.1931. no.373.

With biographical footnotes by J.H. Barnhart.

Journ. New Zeal. Inst.Hort.

Aston, B. C.

Superior New Zealand plants suitable for cultivation. Journ. New Zeal. Inst. Hort. 2: 66-77. 4 pl. on 2. D.1930. no.3.

Kranke Pflanze (Dresden)

Baunacke, W.

Prof. Dr. Richard Schander. Kranke Pflanze. 8: 1-3. Ja.1931.

Magyar Biol. Kut. Inst. Munk. (Arb. Ungar. Biol. Forsch. Inst.) (Tihany)

Moesz, G.

Gombák a Balaton mellékéről és a Bakonyból. (Pilze aus der umgebung des Balaton und aus dem Bokony-gebirge). Magyar Biol. Kut. Inst. Munk. (Arb. Ungar. Biol. Forsch. Inst.) 3: 9-119. illus. 1930. no.1.

Hungarian & German.

Rhabdospora ononidis, Cercosporella scirpi, Cercosporina scrophulariae, n.spp.

Soó, R.

A modern növényföldrajz problemái, iranyai és irodalma. A növenyszociológia Magyarországon. (Ueber probleme, richtungen und literatur der modernen geobotanik. Die pflanzensoziologie in Ungarn). Magyar Biol. Kut. Inst. Munk. (Arb. Ungar. Biol. Forsch. Inst.) 3: 1-51. 1930. no.1.

Hungarian with German summary: p.37-51.

Magyar Biol. Kut. Inst. Munk. (Arb. Ungar. Biol. Forsch. Inst. (cont)
Soó, R.
Adatok a Balatonvidék flórájának és vegetációjának ismeretéhez. II. (Beiträge zur kenntnis der flora und der vegetation des Balatongebietes. II). Magyar Biol. Kut. Inst. Munk. (Arb. Ungar. Biol. Forsch. Inst.) 3: 169-185. 1930. no.1.
Hungarian with German summary.

Maine Naturalist (Augusta, Me.)
Pitman, E.M. & Pitman, H.
Some Maine grasses, and grass-like plants. Maine Naturalist 10: 74-76. 1930.

Malayan Agr. Journ. (Kuala Lumpur)
Beeley, F.
Mildew disease of Hevea. Malayan Agr. Journ. 18: 596-599. D.1930. no.12.

Meded. Proefst. Vorstenl. Tabak. Java (Klaten)
Thung, T. H.
Phytopathologische waarnemingen. Jaarverslag Proefst. Vorstenland. Tabak, Java 1929/30. Its. Meded. 69: 21-40. illus. 1930.

Möller's Deut. Gärtn.-Zeit. (Erfurt)
Sonkes, F.
Das grosse buchen-sterben im Ruhrokohlenbezirk. Möller's Deut. Gärtn.-Zeit. 46: 9-10. Ja.1, 1931. no.1.
Armillaria (Agaricus) mellea.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)
Goffart, H.
Ueber den hafernematoden (Heterodera schachti Schm.) (Zugleich eine bitte um mitarbeit). Nachrichtenbl. Deut. Pflanzenschutzd. 2: 3-4. Ja. 1931. no.1.

Pape, H.
Zum auftreten des mahonienrostes (Uropyxis mirabilissima Magn.) Nachrichtenbl. Deut. Pflanzenschutzd. 2: 2. Ja.1931. no.1.

Nature (London)
Buxton, B. H. & Darlington, C. D.
Behaviour of a new species, Digitalis mertonensis. Nature 127: 94. Ja.17, 1931. no.3194.

Nature (cont.)

Prof. Felix Lühnis. Nature 127: 99-100 Ja.17, 1931. no.3194.

Sansome, F. W.
Saxifrage crosses. Nature 127: 59-60. Ja.10, 1931. no.3193.
S. potternensis.

Tansley, A. G.
Prof. C.E. Moss. Nature 127: 98-99. Ja.17, 1931. no.3194.

Nature Mag. (Washington, D.C.)

Bailey, V.
The barrel cactus. Nature Mag. 17: 112-114. illus. F.1931. no.2.

Scheffauer, H. G.
The plant as artist and architect. Nature Mag. 17: 85-87. illus. F.1931. no.2.

Naturforsch. (Berlin)

Lakowitz, K.
Das leuchtmoos (Schistostega osmundacea Mohr.) und sein vorkommen im deutschen flachlande. Naturforsch. 7: 382-384. illus. Ja.1931. no.10.

Möbius, M.
Die gestalt des pflanzenembryos in samen in beziehung zur systematik und lebensweise. Naturforsch. 7: 374-382. illus. Ja.1931. no.10.

Schieferdecker, K.
Gräser. Ein betrachtung aus der lichtbildkunst. Naturforsch. 7: 387-389. pl. 79-80. Ja.1931. no.10.

Naturwissensch. (Berlin)

Hartmann, M.
Relative sexualität und ihre bedeutung für eine allgemeine sexualitäts- und eine allgemeine befruchtungstheorie. Naturwissensch. 19: 8-16, 31-37. illus. Ja.2,9,1931. no.1,2.

Pringsheim, E. G.
Das rätsel der stoffbewegungen in der pflanze. Naturwissensch. 19: 16-19. Ja.2, 1931. no.1.

New Flora & Silva (London)

Armstrong, J. T.
Primulas in Illinois. New Flora & Silva 3: 63-65. O. 1930 (Rec'd Ja.1931) no.1.

Bean, W.J.
Cotoneasters. II. New Flora & Silva 3: 3-9. illus. O.1930 (Rec'd Ja.1931) no.1.

Bean, W. J.
Hardy climbing shrubs. New Flora & Silva. 3: 82-90. Ja. 1931. no.2.

Comber, H. F.
Plant-collecting in Tasmania. I- New Flora & Silva 3: 91-100. 7 pl. on 3. Ja.1931. no.2.

Cox, E.H.M.
The great yew at Fortingall. New Flora & Silva 3: 135-138. 2 pl. on 1. Ja.1931. no.2.

Crocker, P. S.
Germination. New Flora & Silva. 3: 10-17. 2 pl. on 1. O.1930 (Rec'd Ja.1931) no.1.

Grove, A.
Lilium speciosum. New Flora & Silva 3: 18-24. 3 pl. on 2. O.1930 (Rec'd Ja.1931) no.1.

Harrow, R. L.
Some Asiatic gentians. New Flora & Silva 3: 119-126. 3 pl. on 2. Ja.1931. no.3.

Johnson, A. T.
A selection of the dwarfer heaths. New Flora & Silva 3: 48-54. 1 pl. O.1930 (Rec'd Ja.1931) no.1.

Lemperg, F.
Aconites. Species of the European Alps and Balkans. New Flora & Silva 3: 69-72. O.1930. (Rec'd Ja.1931) no.1.

Morris, F.
Lady slippers of eastern North America. New Flora & Silva 3: 77-81. 4 pl. on 2. Ja.1931. no.2.

North West. Nat. (Arbroath, Scotland)

Weiss, F. E.
The vegetative propagation of Crocus nudiflorus Sm. North West. Nat. 5: 220-224. illus. D. 1930. no.4.

Occas. Papers Bern. P. Bishop Mus.

Brown, F.B.H.
New Polynesian plants. Occas. Papers Bern. P. Bishop Mus. v.9, no.4. 23 p. illus. S.1930.

Caum, E.L.
New Hawaiian plants. Occas. Papers Bern. P. Bishop Mus. v.9, no.5. 30 p. incl. illus.,plates. S. 1930.

Caum, E. L.
Notes on the flora of Molokini. Occas. Papers Bern. P. Bishop Mus. 9(1): 15-18. 1930.

Krajina, V.
New Hawaiian species of Pipturus. Occas. Papers Bern. P. Bishop Mus. v.9, no.4. 6 p. incl. 2 pl. Ap.20, 1930.
P. skottsbergii, P.forbesii..

Oesterr. Bot. Zeitschr. (Wien)

Geitler, L.
Ueber das auftreten von karotin bei algen und die abgrenzung der heterkonten. Oesterr.Bot. Zeitschr. 79: 319-322. D.1,1930. no.4.

Gilli, A.
Das initialstadium eines sphagnetums in einem torfmoorfreien gebiete. Oesterr. Bot. Zeitschr. 79: 307-318. D.1, 1930. no.4.

Janchen, E.
Eine neue Corysanthes aud Sumatra. Oesterr. Bot. Zeitschr. 79: 352-354. D.1, 1930. no.4.
C. rosea.

Janchen, E.
Ein neues Helianthemum aus Aegytpen. Oesterr. Bot. Zeitschr. 79: 349-351. illus. D.1, 1930. no.4.
H. sphaerocalyx.

Oesterr. Bot. Zeitschr. (cont.)

Klein, G. & Schlögl, M. C.
Der mikrochemische nachweis der akaloide in der pflanze. XVI. Der nachweis von galegin. Oesterr. Bot. Zeitschr. 79: 340-348. illus. D.1, 1930, no.4.

Müller, L
Schwankungen im zahlenverhaltnis der blute von Libertia formosa. Oesterr. Bot. Zeitschr. 79: 298-306. illus. D.1, 1930. no.4.

Rosenberg, M.
Die geschlechtliche fortpflanzung von Botrydium granulatum Grev. Oesterr. Bot. Zeitschr. 79: 289-296. illus., 1 pl. D.1, 1930. no.4.

Schussnig, B.
Der generations- und phasenwechsel bei den chlorophyceen.II. Oesterr. Bot. Zeitschr. 79: 323-332. D.1, 1930. no.4.

Schussnig, B.
Phykologische beiträge III. Oesterr. Bot. Zeitschr. 79: 333-339. illus. D.1, 1930. no.4.
Acetabularia wettsteinii n.dp.

Uphof, J.C. Th.
Biologische beobachtungen an Baltis maritima L. Oesterr. Bot. Zeitschr. 79: 355-367. illus. D. 1, 1930. no.4.

Pharm. Zentralh. (Dresden)

Richter, J.v.
Die schwerkraft und die pflanze. Pharm. Zentralb. 72: 33-38. Jan.15, 1931. no.3.

Phytopath.

American physopathological society.
Abstracts of papers presented at the 23rd annual meeting, Cleveland, Dec.30,1930 to Jan. 1,1931. Phytopath. 21: 103-132. Ja.1931. no.1

Ciferri, R. & Bruner, S.C.
Cercospora bataticola, n.sp., parasite of the sweet potato in America. Phytopath. 21: 93-96. illus. Ja.1931. no.1

Phytopath. (cont.)

Elcock, H.A.
Phytomonas beticola. Phytopath. 21: 13-40. illus. Ja.1931. no.1.

Groves, A.B.
Natural fire-blight infections on Spiraea vanhouttei. Phytopath. 21: 89-91. illus. Ja. 1931. no.1.

Jones, L. R.
William Allen Orton, 1877-1930. Phytopath. 21: 1-11. port. Ja.1931. no.1.

LeClerg, E.L.
The relation of leaf blight to sun scald of honeydew melons. Phytopath. 21: 97-98. illus. Ja.1931. no.1.

Priode, C. N.
Target blotch of sugar cane. Phytopath. 21: 41-57. illus.,pl.i (col.) Ja.1931.no.1.
Due to species of Helmonthosporium.

Shapovalov, M. & Lesley, J.W.
Effect of shading on the rate of development of tomato yellows. Phytopath. 21: 83-87. illus. Ja. 1931. no.1.

Stewart, D.
Sugar-beet yellows caused by Fusarium conglutinana var. betae. Phytopath. 21: 59-70. illus. Ja. 1931. no. 1.

Weimer, J. L.
Alfalfa dwarf, a hitherto unreported disease. Phytopath. 21: 71-75. illus. Ja.1931. no.1.

Wolfe, F. A.

Diaporthe blight of larkspur. Phytopath. 21: 77-81. illus. Ja.1931. no.1.
D. arctii.

Phytopath. Zeitschr. (Berlin)

Mes, M.
Physiological disease symptoms of tobacco. Phytopath. Zeitschr. 2: 593-614. illus. 1930. no.6.

Schilberszky, K.
Der berberitzenstrauch und die schwarzrostfrage, Phytopath. Zeitschr. 2: 615-637. 1930. no.6.

Phytopath. Zeitschr. (cont.)
Schweizer, G.
Ein beitrag zur ätiologie und therapie der blattrollkrankheit bei der kartoffelpflanze. Phytopath. Zeitschr. 2: 557-591. illus. 1930. no.6.

Prakt. Blätt. Pflanzenb. u. Pflanzensch. (Freising)
Hiltner, E.
Der tau und seine bedeutung für den wasserhaushalt der kulturpflanzen. Prakt. Blätt. Pflanzenb. u. Pflanzensch. 30: 223-233. illus. Ja. 1931. no.10.

Proc. Nat. Acad. Sci.
Brooks, M. M.
The penetration of 1-napthol-2-sulphonate indophenol, O-chloro phenol indophenol and O-cresol indophenol into Valonia. Proc.Nat. Acad. Sci. 17: 1-3. Ja. 1931. no.1.

Progr. Agr. & Vitic. (Montpellier)
Ravaz, L.
Enquête sur le mildiou. (cont.) Progr. Agr. & Vitic. 95: 53-57. Ja.18, 1931. no.3.

Protoplasma (Leipzig)
Czaja, A. T.
Zellphysiologische untersuchungen an Cladophora glomerata. Isolierung, regeneration and polarität. Protoplasma. 11: 601-627. Illus. D.1930. no.4.

Marsh, G.
The effect of mechanical stimulation on the inherent E. M. F. of polar tissues. Protoplasma. 11: 497-520. illus. D.1930. no.4.
Experiments with onion.

Steward, F. C.
Diffusion of certain solutes through membranes of living plant cells and its bearing upon certain problems of solute movement in the plant. Protoplasm. 11: 521-557. illus. D.1930. no.4.

Ulehla, V.
Permeability of the cell wall. I. Membrane of the reed-grass (Arundo phragmites v. pseudodonax Asch. and Graeb.): its use as osmometer and its permeability for sucrose. Protoplasm 11: 574-600. illus. D. 1930. no.4.

Protoplasma (cont.)

Zscheile, F.P.jr.
The thermodynamics of ion concentration by living plant cells. Protoplasm 1: 481-496. D.1930. no.4.
Experiments with Nitella.

Rassegna Econ. Colon. Italy (Roma)

Piani, G.
Sull'acclimatazione di alcume specie forestali esotiche in Cirenaica. Rassegna Econ. Colon. Italy. 18: 962-1002. incl.plates. S/O.1930 no.9/10.

Rev. Agronómica (Lisboa)

Morais Amado, J.de.
Elementos para a classificação das cevadas. Rev. Agronomica. 18(3): 33-48. 1930.

Oliveira, B.de.
"Cephalothecium roseum" Corda. Subsidios para o estudo da podridão rósea do coração das maçãs. Rev. Agronomica. 18(3): 49-63, 18(4): 9-67. illus. 3 pl. on 2. 1930.

Rev. Bretonne Bot. (Rennes)

Daniel, L.
Etudes sur la greffe (fin) p.913-1136,1137-1376. illus., pl.xxxvii-cxx (pt.col.) With Rev. Bretonne Bot. je., D. 1930. no.1-2. (Rec'd Ja.1931)

Daniel, L.
Sur la répartition anormale de quelques espèces végétales indigenes à Erquy (Cotes-du-Nord). Rev. Bretonne Bot. 1930: 15-16. Je.1930. no.1

Popesco, C. T.
Nouvelle recherches sur la greffe de quelques papilionacées. Rev. Bretonne Bot. 1930: 1-14. xvii pl., 17 tab. Je.1930. no.1.

V.13, no.2, p.31.

Schrift. Reichskur. Techn. Landw. (Berlin)
Wansart, O.
Beiträge zur kenntnis der wirkungsweise und des arbeitstechnischen wirkungsgrades von saatgut-grockenbeizmaschinen. Schrift. Reichskur. Techn. Landw. 15. 77 p. illus. 1930.

Science (Lancaster, Pa.)
Melchers, L. E.
Wheat mosaic in Egypt. Science 73: 95-96. Ja.23, 1931. no. 1882.

[Plants able to grow in a soil without the all-necessary nitrogen salts] Science v.73, no. 1881, suppl.p. xiv Ja.16, 1931.
Plants found by Prof. R.F. Griggs in Katmai region of Alaska.

Rimsky-Korsakow. M. & others.
Jur. Philipitschenko. Science 73: 86-87. Ja.23, 1931. no. 1882.

Webster, J. E.
Changes occurring in stored alcoholic plant extracts. Science 73: 77-78. Ja.16, 1930. no.1881.

Sugar Beet (Denver, Colo.)
Melhus, I.E. & Aikman, J.M.
The comparative effect of drilled and cross cultivated beets on the spread of leaf spot and yield in Iowa. Sugar Beet. 7: 16-21. illus. D.1930. no.12.

Das Superphosphat (Berlin)
Eichinger, A.
Kartoffelschorf und düngung. Das Superphosphat 7: 8-14. illus. ja.5, 1931. no.1.

Tasmanian Journ. agr.

A preventive for "damping-off", "Cheshunt compound" solution. Tasmanian Journ. Agr. 1: 263: N.1, 1930. no.5.

Tidsskr. Planteavl. (Køblenhavn)
Jørgensen, C. A.
Barkkraeft paa aeble og paere, foraarsaget af Neofabraea corticola (Edgert.) C.A.J. n.sp. et n.comb. Tidsskr. Planteavl. 36: 800-811. illus. 1930. no.5.
N. corticola (Myxosporium corticola).

Trop. Agr. (Ceylon) Peradeniya)
Murray, R.K.S.
The control of Oidium leaf disease. Trop. Agr. (Ceylon) 75: 294-303. N.1930. no.5.

Zeitschr. Parasitenk.
Grosmann, H.
Beiträge zur kenntnis der lebensgemeinschaft zwischen borkenkafer und pilzen. Zeitschr. Parasitenk. 3: 57-102. illus. D.17, 1930. no.1.
Leptopgraphium penicillatum, Graphium pycnocephalum, G. adustum, Dendrostilbella hyalina, n.spp.

Zeitschr. Pilzk. (Leipzig)
Höfer, K.
Pilobolus, der geschoss-schleuderer. Zeitschr. Pilzk. 14(n.s.9): 176-177. pl. 14. D.30, 1930.

Huber, H.
Ist der rettich-fälbling (Hebeloma crustuliniforme) essbar oder giftig? Zeitschr. Pilzk. 14(n.s.9): 190-191. D.30, 1930.

Kallenbach, F.
Die rohrlinge, Boletaceae. Zeitschr.Pilzk. 14(n.s.9): 182-188. D.30, 1930.

Passecker, F.
Bermerkungen zu dem artikel von Professor F. von Teodorowicz "Der vermutliche Karbolgerucherreger bei den hutpulzen". Zeitschr. Pilzk. 14(n.s.9): 175. D.30, 1930.

Pilát, A.
Ueber die giftigkeit der Hebeloma-arten. Zeitschr. Pilzk. 14(n.s.9): 191-192. D.30, 1930.

Zeitschr. Pilzk. (cont.)
Schäffer, J.
Die sammethäubchen (Galera). Zeitschr. Pilzk. 14(n.s.9): 163-174. D.30, 1930.
G. incarnata (G. fragilis?), G. aurea n.spp.

Zeitschr. Zuckerind. Cechoslovak. Rep.
Neuwirth, F.
Microsphaera betae Vaňha. Zeitschr. Zuckerind. Cechoslovak. 55: 75-79. illus. O.17, 1930. no.7.

Rambousek, F. & Neuwirth, F.
Gewebsrisse im parenchymatischen grundgewebe und die nachfolgende fäulnis der zuckerrube. Zeitschr. Zuckerind. Cechoslovak. Rep. 55: 53-60. illus. O.10, 1930. no.6.

Stehlik, V. & Neuwirth, Fr.
Oekologie der aufgehenden rube mit berücksichtigung ihrer krankheiten (cont.) Anfängliche entwicklung der jungen pflanze. Zeitschr. Zuckerind. Cechoslovak. Rep. 55: 95-102. illus. (1 col.) O.31,1930. no.9.

Zentralbl. Bakt. Abt. II. (Jena)
Prof. Dr. Felix Lohnis. Zentralbl. Bakt. Abt. II. v.82, prel. leaf[port. D.30, 1930. no.15/22.

Thies, W.
Untersuchungen über den einfluss der bedingungen auf die saurebildung des schimmelpilzes Aspergillus funaricus. Zentralbl.Bakt. Apt. 11, 82; 321-347. illus. D.30, 1930. no.15/22.

Der Züchter. (Berlin)
Hackbarth, J.
Künstliche kreuzungsmethoden bei steinklee und luzerne. Der Züchter. 2: 354-358. illus. D. 1930. no.12.

Kappert, H.
Heterosia and inzuchtfragen. Der Züchter. 2: 358-368. D.1930. no.12.

Ufer, M.
Untersuchungen über die befruchtungsverhältnisse einiger Melilotusarten (steinklee). Der Züchter. 2: 341-354. illus. D.1930. no.12.

Exper. Stat. Publ.

Huelsen, W. A. & Gillis, M.C.
Breeding two new varieties of greenhouse tomatoes resistant to Fusarium wilt. Illinois Agr. Exp. Stat. Bull. 361: 409-434. illus. D.1930.
Blair forcing & Lloyd forcing.

Valleau, W.D. & Johnson, E. M.
The relation of some tobacco viruses to potato degeneration. Kentucky Agr.Exp. Stat. Bull. 309: 475-502. 5 pl. on 3. Jl. 1930 (Rec'd Ja.1931)

Tyson, J.
Influence of soil conditions, fertilizer treatments, and light intensity on growth, chemical composition, and enzymic activities of sugar beets. Michigan Agr. Exp. Stat. Tech. Bull. 108. 44 p. O.1930 (Recd'd Ja.1931)

Brierley, W. G.
A study of senescence in the red raspberry cane. Minnesota Agr. Exp. Stat. Tech. Bull. 69. 36 p. illus. S.1930 (Rec'd Ja.1931)

Currence, T. M.
Inheritance studies in Phaseolus vulgaris. Minnesota Agr. Exp. Stat. Tech. Bull. 68. 28 p. illus. Ag.1930 (Rec'd Ja.1931)

Ware, L. M.
Propagation studies with the southern blueberry. Mississippi Agr. Exp. Stat. Bull. 280. 39 p. illus. Ag.1930.

New Jersey Agricultural experiment station - Dept.of plant pathology.
Frost injuries. Its Nursery Dis. Notes. 3(7): 1-4. Ja.1931.
With special reference to Rhododendron.
Mimeographed.

Horsfall, J. G.
Combating damping-off of tomatoes by seed treatment. New York Agr. Exp. Stat. Bull. 586. 22 p. illus. O.1930 (Rec'd Ja.1931)

Exper. Stat. Publ. (cont.)

Tukey, H. B.
Identification of mazzard and mahaleb cherry rootstocks. New York Agr. Exp. Stat.Circ. 117. 12 p. illus. D.1, 1930 (Rec'd Ja.1931)

Yeager, A.F. & Heath, F.M.
Perennial flowers for North Dakota homes. North Dakota Agr. Exp. Stat. Bull. 170. rev. 56 p. illus. Ja.1929. (Rec'd Ja.1931).

Orton, C.R. & Ashcroft, J.M.
Save black walnut from canker. West Virginia Agr. Exp. Stat. Circ. 58. 3 p. illus. D.1930.

Newton, G.A.
Department of plant pathology. Ann. Rep. West. Washington Exp. Stat. 1929/30 (Bull.18,W): 18-21. O.1930 (Rec'd Ja.1931)

New Books.

Adolph, E. F.
The regulation of size as illustrated in unicellular organisms. Springfield, Ill., C. C. Thomas, 1931.
Spirogyra cells: p.196-207.

Ajon, G.
Aspetti chimici del malsecco. Milano, Tip. A. Quinterio & C., 1930.
Estratto dalla Revista italiana della essenze e profumiinn. 10-11, Ottobre e Novembre 1930.
Deuterophoma tracheifila.

Biochemical studies on the bamboo. II-VII. Kyoto, 1930.
From the anniversary volume dedicated to Prof. Masumi Chikashige.
II-III Chemical development in the growth of bamboo shoots I(by C.Tanaka)- II(by D. Kamiya. - IV. Chemical development in the growth of bamboo sheaths by T. Tashima. - V. Chemical development in the growth of bamboo shoots. By K. Nishioka. - VI. Carbohydrates and organic acids of the bamboo shoots. By Y. Sasaoka. - VII. Seasonal variations in the chemical composition of the madake (Phyllostachys quilioi F.M.) By T. Nagasawa.

New Books. (cont.)

Bonnier, G. & Douin, R.
Flore complète illustrée en couleurs de France... Suisse et Belgique. v.11, fasc. 105. pl. 625-630. 1930

Britton, N.L. & Wilson, P.
Botany of Porto Rico and the Virgin Islands. Supplement to descriptive flora. Bibliography. Index to volume v and vi. Scientific survey of Porto Rico and the Virgin Islands. 6: 523-663. D.19, 1930.

Chiovenda, E.
Flora Somalia. Roma, Sindacato italiano, arte grafiche, 1929.

Conard, H. S.
Plants of central Iowa, being a 3d ed. of the Grinnel flora. Keys for determining the names of the native trees, shrubs, flowers and ferns and most of the cultivated plants (tracheata). Grinnell, Iowa, [1929?]

Kenya. Colony and protectorate of Kenya.
The diseases of plants prevention rules, 1930, and the diseases of plants prevention (coffee) rules, 1930. Nairobi, 1930.

Konrad, P. & Maublanc, A.
Icones selectae fungorum... lfg.6. Paris, 1931?

Lawrence, W.E.
Laboratory manual for the study of general botany. 4th ed. Corvallis, State college press, 1930.

Pasinetti, L.
Malattie e cure delle piante coltivate. Torino, &c., G.B. Paravia & Co., 1930.

Rensch, B.
Eine biologische reise nach den kleinen Sunda-inseln... Mit beiträge von G. Heberer und W. Lehmann. Berlin, Borntraeger, 1930.

Royal horticultural society - Tulip nomenclature committee.
A tentative list of tulip names. Supplement no. 1. Ag.1930.

New Books. (cont.)

Suzuki, H.

Studies on a disease of broad bean caused by Cercosporina fabae (Fautr.), Takahshi et Suzuki, n.p. 1929.

Reprinted from the Scientific bulletin of the Alumni association of the Mie imperial college of agriculture and forestry, no.1, 1929.

Verduyn der Boer, J.H.

Botanists at the Cape I. Biographical notices of Cape botanists with 21 portraits. Cape Town, 1929.

Translations filed in Library of Bur. of Plant Industry.

Hülsenberg, H.

Ueber eine verbreitete krankheitserscheinung an zuckerrüben in der Provinz Sachsen im jahre 1930. (On a widely spread pathological phenomenon in sugar beets in Prussian Saxony). Deut. Zuckerind. 55: 1079-1080. 0.4, 1930.

Jesweit, J.

Beschrijving der soorten van het suikerriet. 2,4. bijdrage. (Description of the varieties of sugar cane 2nd, 4th contribution). Arch. Suikerind. Nederl. 24(1): 625-636. Ap.1916; 25: 331-352. F.1917.

2. The most important seedling varieties of Java. 4. Seedlings from Cheribox x Batjan of Sempalwadak. S.W.1, 3,5A, 16, 70 and 111.

Rogaliskii, B. & Mazurkevich, Z.

Opyt izucheniia Alhagi camelorum Fisch. - kak sorniaka (Experimental study of Alhagi camelorum Fisch. as a weed). Trudy Prikl. Bot. i Selek. (Bull. Appl. Bot. & Select. Petrogr.) 11: 1-16. 1918.

Stehlik, V.

Studien uber die verteilung des zuckers in der rübe zur zeit der ernte, mit rücksicht auf die individuellen unterschiede (Studies on the distribution of sugar in the beet at the time of harvest and in regard to individual differences). Zeitschr. Zuckerind. Čechoslov. Rep. 47: 449-455, 457-463, 465-470. 1923.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no. 3. Feb. 2-14, 1931.

Acta Horti Petrop. (Leningrad)

Fedchenko, B. A.
Flora Iugo-Vostoka Evropeiskoi chast SSSR (Flora Rossiae Austro-orientalis) fasc.4. Salicaceae - Ranunculaceae. Leningrad, 1930 (Acta Horti Petrop. v.43, f.1)

Agr. Journ. India (Calcutta)

Ekbote, R.B.
The value of hybridization in the improvement of crops. Agr. Journ. India 25: 396-407. pl. xxvii. S.1930. no.5.

Parija, P.
A preliminary note on the physiology of the seedlings of the water-hyacinth (Eichhornia speciosa). Agr. Journ. India 25: 386-391. pl. xxiii-xxv. S. 1930. no.5.

Agronomia (Rio de Janeiro)

Bitancourt, A. A.
Doencas cryptogamicas das plantas cultivadas. Agronomia (Rio de Janeiro) 1: 239-253. 1930.

Oliveira Mendes, L.de.
Importancia do clima na cultura do cacueiro. Agronomia (Rio de Janeiro) 1: 57-60. 1930.

Rangel, E.
Ensaio de um glossario portuguez referente á mycologia e á phytopathologia. Agronomia (Rio de Janeiro) 1: 325-390. 1930.
Seguido de vocabulos latinos, ou alatinados, e sues correspondentes em portuguez.

Silveira Grillo, H.V. da.
Estudo sobre o "Septobasidium albidum" da laranjeira. Agronomia (Rio de Janeiro) 1: 265-276. 2 pl. 1930.

Toledo Piza, S. de., jr.
Cruzamento entre especies. Agronomia (Rio de Janeiro) 1: 201-209. illus. 1930.

Amer. Bot. (Indianapolis, Ind.)

Clute, W. N.
The meaning of plant names. XLV. Certain weedy composites. Amer. Bot. 37: 7-12. Ja.1931. no.1.

Clute, W. N.
Swamp and dune. Amer. Bot. v.37, suppl. p. 1-16. illus. Ja.1931. no.1.

Death of J. M. Bates. Amer. Bot. 37: 20. Ja. 1931. no.1.

Life cycle of field pansy. Amer. Bot. 37: 25-26. Ja. 1931. no.1.
Viola rafinesquii.

Reed, C. A.
Persistence of wildflowers. Amer. Bot. 37: 16-17. Ja. 1931. no. 1.
Antirrhinum strictum in Santa Cruz Co., Calif.

Summer pruning of twigs. Amer. Bot. 37: 24-25. Ja. 1931. no.1.

Amer. For. & For. Life. (Washington, D. C.)

Borah, A.
Old trees of Washington. Amer. For. & For. Life. 36: 93-97. illus. F.1931. no.2.

Ann. Dir. Gen. Agr., Comm. & Colon. Morocco.

Miege, E.
Contribution a l'étude morphologique des blés. Étude de quelques caractères secondaires de l'épi. Ann. Dir. Gen. Agr., Comm. & Colon., Morocco v.1, 221 p. illus. 1930.

Ann. Tecn. Agr. (Rome)

Crisci, P.
Il P_H nell'uva - sua misura e sua interpretazione. Ann. Tecn. Agr. 4: 6-35. Ja.1, 1931. no.1.

Ongaro, D.
Sulle proprietà e sulla composizione della linfa del gelso. Ann. Tecn. Agr. 4: 50-58. illus. Ja.1, 1931. no.1.

Ann. Tecn. Agr. (cont.)
Parisi, E.
Ricerche chimiche sul tiglio di canapa. Ann. Tecn. Agr. 4: 59-71. Ja.1, 1931. no.1.

Arch. de Bot. Caen Mém.
Tronchet, A.
Recherches sur les types d'organisation les plus répandus de la plantule des dicotylédones leurs principales modifications, leurs rapports. Arch. de Bot. Caen Mem. v.4, no.1. 252 p. illus. 1930.

Biol. Gen. (Vienna)
Kisser, J.
Biologische untersuchungen an zwergbäumchen. I. Die strukturverhältnisse der hochmoorformen von Picea excelsa. Biol. Gen. 7: 13-68. illus., pl.i-iii. 1931. no.1.

Blue Anchor. (Sacramento, Calif.
Hendrickson, A. H.
Pollination of the President plum. Blue Anchor. 8(2): 6. pl. F.1931.

Blumen u. Pflanzenb. (Berlin)
Schwartz, G.
Die welkekrankheit der sommerastern und ihre bekampfung. Blumen u. Pflanzenb. 46: 10-11. illus. Ja.1, 1931. no.1.

Bolezni Rast. (Morbi Plant.) Leningrad.
Baum-Chumakova, E.
Gor'kaia gnil iablok, vyzyvaemaia Glomerella cingulata (Bitter rot of apples). Bolezni Rast. (Morbi Plant.) Leningrad 19: 55-69. 1930. no.1/2.
Russian with very brief summary in English.

Bondartseva-Monteverde, V. N. & Vasil'evskii, N. I.
Askokhitoz gorokha i drugikh bobovykh (Ascochytose in the pea and other Leguminosae). Bolezni Rast. (Morbi Plant.) Leningrad 19: 8-11. 1930. no. 1/2.
Russian with brief English summary.
Preliminary communication.

Gomoliako, N. I.
Habliudeniia nad razvitien poroshistoi parshi u kartofelia (Beobachtungen an der entwicklung von schwammschorf bei der kartoffel) Bolezni Rast. (Morbi Plant.) Leningrad 19: 79-88. 1930. no.1/2.
Russian with brief German summary.
Spongospora subterranea.

Bolezni Rast. (Morbi plant.) (cont.)

Karakulin, B. P.

Ob opytakh po izucheniiu vredonosnosti bolezneĭ rasteniĭ putem primeneniia iskysstvennykh zarazheniĭ (Ueber versuche des studiums der schädlichkeit von pflanzenkrankheiten mittels kunstlicher ansteckung). Bolezni Rast. (Morbi Plant.) Leningrad 19: 1-8. 1930. no.1/2.

Russian with brief German summary.

Khokhriakov. M. K.

O vidovom nazvanii gribka iz roda Cercospora na Cichorium intybus L. (Sur la denomination d'espece du champignon du genre Cercospora sur Cichorium intybus L.) Bolezni Rast. (Morbi Plant.) Leningrad 19: 88-90. 1930. no.1/2.

Considers that Cercospora cichorii-intybi Woronichin is same as C. cichorii Davis.

Russian with very brief French summary.

Milovtsova, M. A.

Obraz zhizni i istoriia razvitiia Taphridium umbelliferarum Lagerh. et Juel. (Life and development of Taphridium umbelliferarum Lagerh. et Juel.) Bolezni Rast. (Morbi Plant.) Leningrad 19: 15-22. illus. 1930. no.1/2.

Russian with brief English summary.

On Carum carvi.

Shurshin, P. I.

Teratologicheskie iavleniia na rasteniiakh, obnaruzhennye v Leninragdoskoĭ obl. v 1927 g. (Im jahre 1927 wahrgenommene teratologische erscheinungen) Bolezni Rast. (Morbi Plant.) Leningrad 19: 11-15. 1930. no.1/2.

Russian with brief German summary.

Vladimirskaia, N. N.

K voprocy dezinfektsii pochvy (The question of soil disinfection) Bolezni Rast. (Morbi Plant.) Leningrad 19: 22-54. 1930. no.1/2.

Russian with English summary.

Bot. Tidsskr. (København)

Herring, P.

Roserne ved Høve Strand. Bot. Tidsskr. 41: 201-209. 1930. no.3.

Bot. Tidsskr. (cont.)

Jørgensen, C. A.
Mykologiske notitser. 3-10. Bot. Tidsskr. 41: 227-239. illus. 1930. no.3.
Neofabraea corticola, n.sp.

Lange, A.
Misteltenen i Danmark. Bot. Tidsskr. 41: 189-199. 1930. no.3.

Lind, J.
Danske micromyceter. Bot. Tidsskr. 41: 210-226. pl. v-vi. 1930. no.3.
Gnomoniella tormentillae, Microdiplodia resedae, Hendersonia artemisiae, H. helichrysi, Camarosporium microsporum, Isariopsis empetri n.spp.

Lune, A.
A new species of Pleotrachelus with remarks on this genus. Bot. Tidsskr. 41: 240-243. illus. 1930. no.3.
Pleotrachelus petersenii.

Raunkiaer, C.
Festuca rubra paa Fanø. Bot. Tidsskr. 41: 244-256. illus. 1930. no.3.

Raunkiaer, C.
Variation hos Tussilago farfarus L. Bot. Tidsskr. 41: 257-258. 1930. no.3.

Bull. Fan Mem. Inst. Biol.

Ching, R. C.
The studies of Chinese ferns, II. Bull. Fan Mem. Inst. Biol. 1: 145-159. illus. My.30, 1930 (Rec'd F.1931) no.9.

Barker, H. D.
Identification des plantes d'Haiti par leurs noms creoles. Bull. Serv. Techn. Dép. Agr. Haiti. 18. 23 p. 1930.

Sylvain, P. G.
Etude sur les principaux arbres et arbustes d'Haiti propres à l'ornementation. Bull. Serv. Techn. Dép. Agr. Haiti 21. 57 p. illus. O.1930.

Bull. Mat. Grass. Inst. Colon. Marseille.

Mello Geraldes, C.de, Almeida, A. d' & Duarte, C.
Étude sur quelques graines oleâgineuses forestières de l'Angola. Bull. Mat. Grass. Inst. Colon. Marseille 14: 332-342. 1930. no.11.

Bull. Misc. Inform. Kew. (London)

Boergesen, F.
Some Indian Rhodophyceae especially from the shores of the Presidency of Bombay. Bull. Misc. Inform. Kew. 1931: 1-24. illus. pl.i-ii. 1931. no.1.

Brown, N. E.
Identification of some types in the herbaria of Thunberg and Lamarck. Bull. Misc. Inform. Kew 1931: 61. no.1.
Buddleja, Capraria, Eriocaulon.

Fischer, C.E.C.
Contributions to the flora of Burma. IX. Bull. Misc. Inform. Kew 1931: 26-29.

Francis, W. D.
The buttresses of rain-forest trees. Bull. Misc. Inform. Kew 1931: 24-26. pl. iii. 1931.no.1.

Howes, F. N.
Psyllium seeds. Bull. Misc. Inform. Kew 1931: 62-63. no.1.

Kew. Royal gardens.
Decades kewenses. Plantarum novarum in herbario Horti regii conservaturum. Decas cxxv. Bull. Misc. Inform. Kew 1931: 41-46. illus. no.1.

Ridley, H. N.
Additions to the flora of Borneo and other Malay Islands II. Bull. Misc. Inform. Kew 1931: 33-39 no.1.

Sandwith, N. Y.
Contributions to the flora of Tropical America IV & V. Bull. Misc. Inform. Kew. 1931: 46-61. no.1.

Bull. Misc. Inform. Kew. (cont.)
Smith, C. A.
Further notes on Lachnophylis. (cont.)
Bull. Misc. Inform. Kew 1931: 39-41. no.1.

Stefanoff, B.
Notes on new or rare Hyperica. Bull. Misc. Inform. Kew 1931: 29-33. 1931. no.1.
H. ovalifolium n.sp.

Bull. Soc. Chim. Biol. (Paris)
Colin, H. & Ricard, P.
L'algine des laminaires. Bull. Soc. Chim. Biol. 12: 1392-1400. D.1930. no. 10.

Bull. Stat. Rech. For. Nord. Afr. (Alger)
Saint-Laurent, J.de
Études sur les caractères anatomiques du liber secondaire dans les essences forestières d'Algérie. Bull. Stat. Rech. For. Nord. Afr. 1: 421-516. illus., pl. xliv-lxii. N.1930. no.10.

Calif. Grow. (San Francisco)
Jacob, H. E.
The treatment of black measles of vines. Calif. Grow. 3(2): 12-13. F.1931.

Canad. Journ. Res. (Ottawa)
Henry, A. W.
The natural microflora of the soil in relation to the foot-rot problem of wheat. Canad. Journ. Res. 4: 69-77. pl. i-ii. Ja. 1931. no.1.

Hibbert, H. & Phillips, J. B.
The nature of the resins in jack pine (Pinus banksiana). Canad. Journ. Res. 4: 1-34. Ja. 1931. no.1.

Chem. Umschau (Stuttgart)
Auerbach, L.
Beitrag zur erkennung von pflanzlichen und tierischen fetten. Chem. Umschau 38: 11-12. Ja.18, 1931. no.1.

China Journ. (Shanghai)
Sowerby, A. de C.
Some East Indian orchids. China Journ. 14: 33-37. 3 pl. Ja.1931. no.1.

Circ. Wild Flower Pres. Soc.

Ricker, P. L.

Holly and its cultivation. Circ. Wild Flow. Pres. Soc. no.34 [5] p. [1930]

Compt. Rend. Acad. Agr. France (Paris)

Régnier, R.

Le chancre du peuplier. Compt. Rend. Acad. Agr. France 17: 40-47. Ja.14, 1931. no.1.

Compt. Rend. Acad. Sci. Paris.

Dangeard, L.

Algues inférieures dans le calcaire concretionné de la Limagne. Compt. Rend. Acad. Sci. Paris 192: 172-174. Ja.19, 1931. no.3.

Lavialle, P.

L'étamine chez Knautia arvensis Coult. Polymorphisme des fleurs et des capitules. Compt. Rend. Acad. Sci. Paris 192:176-178. Ja.19, 1931. no.3.

Compt. Rend. Intern. Appareils Util. Lutte Ennem. Cult. Lyon, 1929

Dufrenoy, J.

Les appareils attelés de pulvérisation et de poudrage aux États-Unis. Compt. Rend. Intern. Appareils Util. Lutte Ennem. Cult. Lyon. 1929. p.51-57. 1930.

Joessel, P. H.

Les anticryptogamiques, le matériel et les méthodes de traitement actuellement en usage dans la vallée du Rhone pour la lutte contre les maladies des arbres fruitiers. Compt. Rend. Congr. Intern. Appareils Util. Lutte Ennem. Cult. Lyon, 1929 p. 27-40. 1930.

Paillot, A.

Necessité d'une politique des traitements insecticides et anticryptogamiques des arbres fruitiers. Compt. Rend. Congr. Intern. Appareils Util. Lutte Ennem. Cult. Lyon, 1929. p.43-47. 1930.

Compt. Rend. Soc. Biol. Paris.

Catanei, A.

Remarques sur la valeur de la distinction specifique des Trichophyton violaceum et glabrum. Compt. Rend. Soc. Biol. Paris. 106: 80-81. Ja.23,1931. no.2.

Compt. Rend. Soc. Biol. Paris (cont.)

Hocquette, M.

Fasciation d'origine traumatique chez Bergenia crassifolia (L.) Engl. Compt. Rend. Soc. Biol. Paris 106: 101-102. Ja.23,1931. no.2.

Dansk Bot. Ark. (København)

Hagerup, O.

Vergleichende morphologische und systematische studien über die ranken und andre vegetative organe der cucurbitaceen und passifloraceen. Dansk Bot. Ark. v.6, no.8. 123 p. illus. 1930.

Petersen, J. B.

Algae from O. Olufsen's Second Danish Pamir expedition 1898-1899. Dansk Bot. Ark. v.6, no.6. 59 p. 1 pl. 1930.

Desert (Pasadena)

Swingle, C. F.

Kalanchoes from Madagascar. Desert (Pasadena) 2: 127-128. illus. F.1931. no.10.

Walther, E.

Sedum. Pt. III. Desert (Pasadena) 2:129. illus. F.1931. no.10.

Deut. Landw. Presse (Berlin)

Berg, H. v.

Zytologische verhältnisse der weizenroggenbastarde. Deut. Landw. Presse 58: 30. Ja.17, 1931. no.3.

Tschermak, E.

Ueber die praktische verwertbarkeit der weizenroggenbastarde. Deut. Landw. Presse 58: 29-30. illus. Ja.17, 1931. no.3.

Ernähr. Pflanze (Berlin)

Rösing,

Ein beitrag zur distelbekämpfung. Ernähr. Pflanze 27: 31-32. illus. Ja.15, 1931. no.2.

Schumacher, A.

Die kohlhernie. Ernähr. Pflanze 27: 30-31. illus. Ja. 15, 1931. no.2.

Flor. Rev. (Chicago)

Herrick, E. M.
Gladiolus tests. Flor. Rev. 67(1731): 34. Ja.29, 1931.
Irrigation increases scab. Gladiolus scab. infection.

Forstw. Centralbl. (Berlin)

Niethammer, A.
Beiträg zur kenntnis des lebenden zellinhaltes der rinde heimischer waldbäume. Forstw. Centralbl. 52: 74-77. Ja.15, 1931. no.2.

Gard. Chron. (London)

Anderson, A. W.
Stilbocarpa. Gard. Chron. III, 89: 85-86. illus. Ja.31, 1931. no.2301.

Brown, N. E.
Mesembryanthemum. (cont.) Mananthus. Gard. Chron. III, 89: 92-93. illus. Ja.31, 1931. no.2301.

Craig, W. N.
Lily notes from America. Gard. Chron. III, 89: 86-87. Ja.31, 1931. no.2301.

Darnell, A. W.
The genus Primula (cont.) Gard. Chron. III, 89: 93-95. Ja.31, 1931. no.2301.

Ingram, C.
Gladiolus nebulicola, Ingram; spec. nov. Gard. Chron. III, 89: 87. illus. Ja.31, 1931. no.2301.

Judd, W. H.
Ilex crenata var. bullata. Gard. Chron. III, 89: 90. Ja. 31, 1931. no.2301.

Ward, F. K.
The Roosevelt expedition in French Indo-China. IX. Across the Mekong to Muongsing. Gard. Chron. III, 89: 88-89. illus. Ja. 31, 1931. no.2301.

Warner, H. H.
Mistleto. Gard. Chron. III, 89: 95. Ja.31, 1931. no.2301

Gard. Chron. Amer.

Baird, R. O.

A recent cactus expedition. Cacti of the southwest are well represented in the collection made for the Garfield Park Conservatory, Chicago. Gard. Chron. Amer. 35: 51-52. illus. F.1931. no.2.

Gartenbauwiss. (Berlin)

Dolk H. E. & Slogteren, E.van.

Ueber die atmung und die absterbeerscheinungen bei hyacinthenzwiebeln bei höheren temperaturen im zusammenhang mit der bekämpfung der gelbkrankheit. Gartenbauwiss. 4: 133-158. illus. Ja.8, 1931. no.2.

Niethammer, A.

Mikrochemie einzelner blüten im zusammenhange mit der honiggewinnung. Gartenbauwiss. 4: 85-98. Ja.8, 1931. no.2.

Prochaska, M.

Das mohnkorn und seine keimung. Gartenbauwiss. 4: 99-112. illus. Ja.8, 1931. no.2.

Gartenfl. (Berlin)

Junge, H.

Ephedra distachya L. meersträhbel. (syn. E.vulgaris Rich.) und die familie der gnetaceen. Gartenfl. 80: 8-9. illus. Ja.1931.

Gartenw. (Berlin)

Heydenreich, K.

Immergrüne kleingehölze für bodendeckung. Gartenw. 35: 34-35. illus. Ja.16, 1931. no.3.

Miethe, E.

Aufbewahrung von orchideenpollen. Gartenw. 35: 47-48. Ja.23, 1931. no.4.

Hoppe-Seyl. Zeitschr. Phys. Chem.(Berlin)

Grassmann, W., Schoenebeck O.v. & Eibeler, H.

Abhandlung über pflanzenproteasen in der von R. Willstätter und mitarbeitern begonnenen untersuchungsreihe. 16. Ueber die aktivierung tierischer und pflanzlicher proteasen durch glutathion. Hoppe-Seyl. Zeitschr. Phys. Chem. 194: 124-136. Ja.15, 1931. no.3/4.

V.13, no.3, p.12.

Ital. Agr. (Milan)

Pirovano, A.

Elettrobiologia. Ital. Agr. 67: 821-846. illus., col. pl. D.1930. no.12.

Second part has title: "L'elettricita nella fitoterapia.

Izv. Glavn. Bot. Sada SSR (Bull. Jard. Bot. Prin. URSS) (Leningrad)

Aleksandrov, V. G. & Djaparidze, L. I.

O predelakh plastichnosti lista (Ueber die plastizitätsgrenze des blattes). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Sada SSSR) 29: 59-71. 1930. no.1/2.

Russian with German summary.

Czerniakovskaja, E. G.

Novye dannye dlia flory Turkmenistana i Severnoĭ Persii (Les dernières nouveautés de la flore du Turkménistan et de la Perse septentrionale). Izv. Glavn. Bot. Sada SSSR (Bull.Jard. Bot. Prin. URSS) 29: 130-163. illus. (incl.map.) 1930. no.1/2.

Russian with French summary and Latin diagnoses of new species.

Danilov, A. N.

Novaiâ model spektrokolorimetra (Nouveau modèle de spectrocolorimètre). Izv. Glavn. Bot. Sada. SSSR (Bull. Jard. Bot. Prin. URSS) 29: 37-45. illus. 1390. no.1/2.

Ruissian with French summary.

Flaksberger, K.

Triticum compactum antiquorum (Heer). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 72-88. illus. 1930. no.1/2.

Russian with German summary.

Grigor'ev, Iu S.

K sistematiko roda Glycyrrhiza (Zur systematik der gattung Glycyrrhiza). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 93-98. illus. (map) 1930. no.1/2.

Russian with brief German summary and Latin diagnosis of new species (G. Korshinskyi)

Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) (cont.)

Kopteva, Z. T.
Mikroorganizm, usvaivaiushchii gazoobraznyi azot, Bacillus truffauti (Truffaut et Bezsson-off) (Bacillus truffauti, ein gasförmiger stick-stoff assimilierender microorganismus). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 101-107. illus. 1930. no.1/2.
Russian with German summary.

Kosinskaja, E. K.
Kriticheskii spisok sinezelenykh vodoroslei, sobrannykh letom 1928 g.b. okrestnostiakh Sev.-Donetskoi biologicheskoi stantsii imeni V.M. Arnol'di (Enumération critique des cyanophycées, recueillies en été 1928 aux environs de la Station biologique du Donetz-Nord). Izv. Glavn. Bot. Sada SSSR(Bull. Jard. Bot. Prin. URSS) 29: 109-129. illus. 1930. no.1/2.
Russian with French summary.
Merismopedia elongata n.sp.

Liubimenko, V. N., Szeglova, O. A. & Chernysheva, E.V.
O pigmentakh lornia morkobi (Sur les couleurs des racines de la carotte). Izv. Glavn. Bot. Sada. SSSR (Bull. Jard. Bot. Prin. URSS) 29: 46-58. 1930. no.1/2.
Russian with French summary.

Liubimenko, V. N.
Pamiati nezabvennogo Nikolaia Avgustinovicha Monteverde. Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 10-18. 1930. no.1/2.
Russian.
Tributes also by I.V. Paladin (p.19-22) & P. Vinogradov-Nikitin (p.23-24).

Monteverde, N. N.
Nikolai Avgustinovich Monteverde. Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 6-9. ports. 1930. no.1/2.
Russian.
Biography.

Nekrasova, V. L.
K geograficheskomy rasprostraneniiu Chrysosplenium sedakowii Turcz. (Zur geographischen verbreitung von Chrysosplenium sedakowii Turze.) Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 163-164. 1930. no.1/2.
Russian with very brief German summary.

Izv. Glavn. Bot.Sada SSSR (Bull. Jard. Bot. Prin. URSS) (cont.)

Nevskii, S. A.
O novom vide roda Agropyrum Gaertn.) Ueber die neue art der gattung Agropyrum Gaertn.) Izv. Glavn. Bot. Sada SSR (Bull. Jard. Bot. Prin. URSS) 29: 89-91. 1930. no.1/2.
Russian with German summary and Latin diagnosis of Agropyrum uralense n.sp.

Novopokrovsky, I.V. & Chebotareva-Kashinskaja, N.P.
Ob okleisterivanii krakhmala i o nekotorykh fiziko-khimicheskikh svoĭstvakh produktov okleisterivaniia (Ueber die verkleisterung der kartoffelstärke und einige kolloidchemische eigenschaften der verkleisterungsprodukte). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 164-192. 1930. no.1/2.
Russian with German summary.

Savicz, V. P.
De pyrenidiaceis e Kamczatka notula. Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 99-100. illus. (map) 1930. no.1/2.
Coriscium viride.

Savicz, V. P.
Lichenotheca Rossice, decas III. Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot.Prin. URSS) 29: 193-196. 1930 no.1/2.
Placodium toninii n.sp.

Spisok napechatannykh rabot. Sostavlen N.A. Monteverde v 1928 g. (List of publications of N.A. Monteverde.) Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 25-30. 1930.

Izv. Nauchn. Inst. P.F. Lesgafta (Bull.Inst. Sci. Lesshaft)(Leningrad)

Liubimenko, V. N. & Hubbenet, E.R.
Vliianie temperatury na skorost nakopleniia khlorofilla v etiolirovannykh prorostkakh (Influence de la température sur le verdissement des plantules de blé étiolées). Izv. Nauchn. Inst. P.F. Lesgafta (Bull. Inst. Sci. Lesshaft) 16: 165-188. 1930. no.1/2.
Russian with French summary.

Journ. Agr. Prat. (Paris)
Barbut, M.
La destruction des mauvaises herbes par les procédés chimiques. Journ. Agr. Prat. n.s., 55 (1): 9-10. Ja.3, 1931.

Journ. Agr. Sci. (London)
Martin, J. T. & Tattersfield, F.
The evaluation of pyrethrumflowers (Chrysanthemum cinerariaefolium) Journ. Agr. Sci. 21: 115-135. illus., pl.i. Ja. 1931. no.1.

Journ. Amer. Chem. Soc.
Adam, W.B., Hardy, F. & Nierenstein, M.
The catechin of the cacao bean. Journ. Amer. Chem. Soc. 53: 727-728. F.1931. no.2.

Journ. & Proc. Roy. Soc. N.S.W. (Sydney)
Arneman, W.G. & Earl, J. C.
The celluloses of some Australian plants. Journ. & Proc. Roy. Soc. N.S.W. 63: 44-46. My. 1930 (Rec'd F.1931)

Callaghan, A. R.
The development of the inflorescence of Avena sativa, L. Journ. & Proc. Roy. Soc. N.S.W. 63: 62-78. illus. My.1930 (Rec'd Ja.1931)

Finnemore, H. & Cox, C.B.
Cyanogenetic glucosides in Australian plants II, A & B. Journ. & Proc. Roy. Soc. N.S.W. 63: 172-178, 179-182. My.1930 (Rec'd F.1931)
II, A. Eremophila maculata, the native fuchsia. II, B. The presence of enzymes in fodder plants as a factor in the poisoning of stock.
S.K. Reichard joint author II B.

Penfold, A.R. & Morrison, F. R.
The essential oils of Melaleuca decora (Salisbury) Druce, and M. nodosa var. tenuifolia (De Candolle), from the Port Jackson district. I- Journ. & Proc. Roy. Soc. N.S.W. 63: 102-110. pl.vii-ix. My.1930 (Rec'd F. 1931)

Penfold, A.R. & Simonsen, J.L.
Note on the leaf oil from Dacrydium franklini, Hooker. Journ. & Proc. Roy. Soc. N.S.W. 63: 95-101. My.1930 (Rec'd F.1931)

Journ. & Proc. Roy. Soc. N.S.W. (Cont.)

Penfold, A.R. & Morrison, F. R.
The occurrence of a number of varieties of Eucalyptus dives as determined by chemical analysès of the essential oils. III. Journ. & Proc. Roy. Soc. N.S.W. 63: 79-84. My.1930 (Rec'd F.1931)

Journ. Biol. Chem. (Baltimore)

Chibnall, A.C. & Miller, E.J.
Some observations on the distribution of nitrogen in plant extracts that contain a high proportion of nitrate nitrogen. Journ. Biol. Chem. 90: 189-196. Ja.1931. no.1.
Lolium perenne.

Kertesz, Z. I.
Method for the estimation of enzyme yield in fungus cultures. Journ. Biol. Chem. 90: 15-23. Ja.1931. no.1.

Pruess, L.M., Peterson, W.H., Steenbock, H. & Fred, E.B.
Sterol content and antirachitic activatibility of mold mycelia. Journ. Biol. Chem. 90: 369-384. Ja. 1931. no.1.

Szent-Györgyi, A.
On the function of hexuronic acid in the respiration of the cabbage leaf. Journ. Biol. Chem. 90: 385-393. Ja. 1931. no.1.

Journ. Cactus & Succ. Soc. Amer.

Kissinger, D.
Echinocereus blankii. Journ. Cactus & Succ. Soc. Amer. 2: 414. illus. F.1931. no.8.

Manning, J.
The cactacean's primer. Outline of familiar cacti. (III, bis?) Cereeae. Journ. Cactus & Succ. Soc. Amer. 2: 403-406. illus. F.1931. no.8.

Walther, E.
Key to commonly grown genera of Crassulaceae. Journ. Cactus & Succ. Soc. Amer. 2:410-411. F. 1931. no.8.

Journ. Cactus & Succ. Soc. Amer. (cont.)

West, J.

An old plant under a new name. Journ. Cactus & Succ. Soc. Amer. 2: 413. illus. F.1931. no.8.

Formerly Sedum hirsutum var. baeticum, now S. winkleri.

Swingle, C. F.

More about Malagash succulents. Journ. Cactus & Succ. Soc. Amer. 2: 415-417. illus. F. 1931. no.8.

Journ. Chem. Soc. London.

Smith, S.

Digitalis glucosides. III. Glucosides of Digitalis lanata. Journ. Chem. Soc.London 1931: 23-25. Ja.1931.

Journ. For. (Washington, D. C.)

Detwiler, S. B.

The white pine blister rust situation. Journ. For. 29: 181-185. F. 1931. no.2.

Journ. Hered.(Washington)

Fairchild, D.

Sexuality in a sea weed. Journ. Hered. 21: 419-420. O.1930 (Rec'd Ja.1931) no.10.

Fucus vesiculosus.

Kostoff, D.

A chromosomal chimera in tobacco. Somatic non-disjunction and doubling of chromosomes in a Nicotiana hybrid. Journ. Hered. 21: 445-448. illus. O.1930 (Rec'd Ja.1931) no.10.

Journ. Roy. Micr. Soc. (London)

Fikry, M. A.

Phenomena of heterotypic division in the pollen mother-cells of a tetraploid form of Rumex scutatus var. typicus. Journ. Roy. Micr. Soc. III, 50: 387-419. pl.i-vi. D.1930. no.4.

Hanna, G. D.

Hyrax, a new mounting medium for diatoms. Journ. Roy. Micros. Soc. III, 50: 424-426. D. 1930. no.4.

Leták Ustav Zdrav. Rostl. Brünn.

Baudys, E.

Mósaika na hrachoru vonném s fotografii. Leták Ústav. Zdrav. Rostl. Brunn. 70. 7 p. illus. 1930

Sweet pea mosaic.

Czechoslovakian.

Lotos (Prag)

Cypers-Landrecy, C.

Beiträge zur flora des Riesengebirges und seiner vorlagen. Lotos. 78: 85-106. 1930. no.2.

Meded. Algemeen Proefs. A.V.R.O.S. Algemeene ser.

Heusser, C.

Report of the botanical division. In Annual report of the director 1929/30. Commun. Gen. Exp. Stat. A.V.R.O.S. Gen. Ser. 43: 10-15. 1930.

Naturwissensch. (Berlin)

Fischer, E.

Anton de Bary. Zur erinnerung an seinen hundertsten geburtstag. Naturwissensch. 19: 97-102. Ja.30, 1931. no.5.

Neues Handb. Trop. Agr.

Costenoble, H. V.

Das zuckerrohr (Saccharum officinarum Linnaeus) und seine kultur. Neues Handb. Trop. Agr. lfg. 33. 35 p. 1930

Diseases: p.21-27.

Nuovo Giorn. Bot. Ital. (Firenze)

Forti, A.

Il contributo di Maria Selebam de Cattani agli studi delle alghe marine e di certe sue raccolte conservate a Venezia (Studi di nomenclatura). Nuovo Giorn. Bot. Ital. 37: 747-755. 1930. no.4.

Luzzatto, G.

La cleistogamia e l'antesi in alcune razze elette di frumento (Osservazioni eseguite nel quadriennio 1926-1929). Nuovo Giorn. Bot. Ital. 37: 687-746. 1930. no.4.

Minio, M.

Le osservazioni fitofenologiche della rete italiana nel 1929 (annata VIII). Nuovo Giorn. Bot. Ital. 37: 789-803. 1930. no.4.

uovo Giorn. Bot. Ital. (cont.)

Savelli, R.
Ottone Penzig. Nuovo Giorn. Bot. Ital. 37: 756-788. illus.,pl. (port.) 1930. no.4.
Elenco delle pubblicazioni botaniche di O. Penzig:p.783-788.

Trotter, A.
L'ingegnere Michele Guadagno. Notizie biografiche. Nuovo Giorn. Bot. Ital. 37: 804-806. port. 1930. no.4.
Le pubblicazioni botaniche dell'Ing. Michele Guadagno...: p.806.

arfums France (Grasse)

Chiris, A.
L'essence d'ylang-ylang. Parfums France 8: 350-360. illus. D.1930. no.94.

hilipp. Agr. (Los Baños)

Stevens, F. L.
Further observations regarding ultra-violet irradiation and perithecial development. Philipp. Agr. 19: 491-499. illus. Ja.1931. no. 8.

Stevens, F. L.
A misnomer in the use of the term sooty mold. Philipp. Agr. 19:549. Ja. 1931. no.8.
Should not be applied to Meliola.

roc. Akad. Wetensch. Amsterdam.

Florschütz, F.
Fossiele overblijfselen van den plantengroei tijdens het Wurm-glaciaal en het Riss-Würminterglaciaal-in Nederland. Proc. Akad. Wetensch. Amsterdam 33: 1043-1044. 1930. no.9.

Geiger-Huber, M.
Ueber die beeinflussung der hefeatmung durch neutralrot. Proc. Akad. Wetensch. Amsterdam 33: 1059-1068. 1930. no.9.

Heyn, A.N.J.
On the relation between growth and extensibility of the cell wall. Proc. Akad. Wetensch. Amsterdam 33: 1045-1058. 1930. no.9.

Leliveld, J. A.
The heterotypic division in the genus Oenothera. Proc. Akad. Wetensch. Amsterdam 33: 1069-1075. 1930. no.9.

Proc. Imp. Acad. Tokyo.

Takahashi, G., Yoshiki, Y. & Yaginuma, T.
Ueber einige neue bestandteile des aetherischen oels aus dem holze des Chamaecyparis obtusa. I. Proc. Imp. Acad. Tokyo 6: 393-396. illus. D. 1930. no.10.

Proc. Linn. Soc. N.S.W. (Sydney)

Calvert, J.
An abnormal Xanthium burr. Proc. Linn. Soc. N.S.W. 55: 475-476. illus. 1930. no.4.
Xanthium pungens.

Dixon, H. N. & Greenwood, W.
The mosses of Fiji. Proc. Linn. Soc. N.S.W. 55: 281-302. pl. xiii-ix. 1930. no.3.

Jensen, H.L.
The genus Micromonospora Ørskov, a little known group of soil microorganisms. Proc. Linn. Soc. N.S.W. 55: 231-248. pl. vii. 1930. no.3.

Lucas, A.H.S.
Joseph Henry Maiden. 1859-1925. Proc. Linn. Soc. N.S.W. 55: 355-370. port. 1930. no.4.
List of papers by J.H.Maiden: p. 365-370.

Lawson, A. A.
The origin of endemism in the angiosperm flora of Australia. Proc. Linn. Soc. N.S.W. 55: 371-380. pl. x-xi. 1930. no.4.

McLuckie, J.
On Grevillea gaudichaudii R. Br., a supposed natural hybrid between Grevillea laurifolia Sieb. and G. acanthifolia A.C. Pt. 1. Analysis of the hybrid. Proc. Linn. Soc. N.S.W. 55: 386-412. illus., pl. xii-xv. 1930. no.4.

Rupp, H.M.R.
Notes on the autumn orchids of the South Maitland coalfields, N.S.W. Proc. Linn. Soc. N.S.W. 55: 413-416. illus. 1930. no.4.
Pterostylis furcillata n.sp.

Proc. Virginia State Hort. Soc. (Winchester)

Adams, J. F.
Foliage injury in relation to spray materials and plant diseases of the peach. Proc. Virginia State Hort. Soc. 34: 52-59. 1929 (Rec'd 1931)

Proc. Virginia State Hort. Soc. (cont.)

Heinicke, A. J.
Factors affecting the set of fruit.
Proc. Virginia State Hort. Soc. 34: 107-122.
1929 (Rec'd 1931)

Hough, W. S.
Results of experiments to control spray injury on apples. Proc. Virginia State Hort. Soc. 34: 143-147. 1929 (Rec'd 1931)

Hurt, R. H.
New spray materials for apples and peaches.
Proc. Virginia State Hort. Soc. 35: 88-95. 1930.

Wingard, S. A.
Some important orchard diseases. Proc. Virginia State Hort. Soc. 35: 143-152. 1930.

Progr. Agr. & Vitic. (Montpellier)

Constant, G.
Le mildiou en Touraine. Progr. Agr. & Vitic. 95: 115-117. F.1, 1931. no.5.

Ravaz, L.
L'enquête sur le mildiou. Conclusions. Progr. Agr. & Vitic. 95: 101-109. F.1, 1931. no.5.

Rives, L.
Nouvelles observations sur l'apoplexie de l'abricotier et de divers arbres fruitiers. Progr. Agr. & Vitic. 95: 88-91. Ja.25, 1931. no.4.

Publ. Field Mus. Nat. Hist. Bot. Ser.

Standley, P. C.
Flora of the Lancetilla Valley, Honduras.
Publ. Field Mus. Nat. Hist. 283, Bot. Ser.10: 7-418. pl. i-lxviii. Ja.15, 1931.

Repert. Spec. Nov. Beih. (Dahlem)

Hayek, A.
Prodromus florae peninsulae Balcanicae. 4.lfg.
Repert. Spec. Nov. Beih. v.30, h.2. p.337-576.
O.15,1930.

Peter, A.
Flora von Deutsch-Ostafrika... 2.lfg. Repert. Spec. Nov. Beih. v.40, h.1. O.15, 1930.
Gramineae (cont.) p.145-208. pl.xi-xvii.
Plantarum novarum Africae orientalis (cont.) p.17-112.

v. Bot. Appl. (Paris)
Tarrieux, J.
Contribution à l'étude du dattier au Borkou-Ennedi et au Tibesti. Rev. Bot. Appl. 10: 922-926. D. 1930. no.112.

v. Hort. (Paris)
Jarry-Desloges, R.
Feijoa sellowiana. Rev. Hort. 103: 314-317. illus. Ja.16, 1931. no.13.

zul. Veget. Opytov i.Labor. Rabot.(Ergebn. Veget. & Labor.-versuche)
Butkewitsch, W. W. & Sholokhov, E.I.
Fiziologicheskaia kharakteristika kaliinykh solei po otnosheniiu k svekle i nekotorye obshchie voprosy, sviazannye s postupleniem solei v rasteniia (Physiologische charakteristik von kaliumsalzen in bezug auf zuckerrübe und einige allgemeine mit der aufnahme von salzen durch die pflanzen verbundene momente). Rezul. Veget. Opytov i Labor. Rabot. (Ergebn. Veget. & Labor.-versuche) 15: 341-370. 2 pl. 1930.
Russian with German summary.

Inozemtsev, S. I.
K voprosu o formakh soedineniia kaliia v rasteniiakh (Zur frage über die formen der kaliumverbindungen in den pflanzen (Ein elektrodialyse-versuch). Rezul. Veget. Opytov i Labor. Rabot (Ergebn. Veget. & Labor.-versuche) 15: 85-102. illus. 1930.
Russian with German summary.

Shestakov, A. G.
O znachenii kal'tsiia v usvoenii rasteniiami zheleza (Ueber die rolle des kalziums bei der assimilation von eisen durch die pflanzen in wassercultur) Rezul. Veget. Opytov i Labor. Rabot. (Ergebn. Veget. & Labor.-versuche) 15: 49-84. illus. 1930.
Russian with German summary.

Zhurbitskii, Z.I.
K voprosu o vliianii usloviĭ proizrastaniia sakharnoĭ svekly na sostav korniа (Zur frage über den einfluss der vegetationsbedingungen auf die zusammensetzung der zuckerrübenwurzeln) Rezul. Veget. Opytov i Labor. Rabot. (Ergebn. Veget. & Labor.-versuche) 15: 213-272. illus. 1930.
Russian with German summary.

Rhodora (Boston)

Bemis, E. W.
A white-flowered form of Aster amethystinus.
Rhodora 33: 63. F.1931. no.386.
f. leucos.

Blake, S. F.
Carex bebbii in eastern Massachusetts.
Rhodora 33: 63-64. F.1931. no.386.

Fernald, M. L.
Specific segregations and identities in some floras of eastern North America and the old world.
Rhodora 33: 25-63. illus. F.1931. no. 386.

Science News Letter.
Destructive plant disease causes "fever" in leaves.
Science News Letter 19: 100. F.14, 1931. no.513.
Abnormal temperatures observed by J. J. Taubenhaus & W. N. Ezekiel in plants attacked by Phytomtotrichum omnivorum.

Sci. Rep. Tohoku Imp. Univ. 4 ser. (Biol.) (Sendai)

Horikawa, Y.
Studies on the Hepaticae of Japan. III.
Sci. Rep. Tohoku Imp. Iniv. 4. Ser. Biol. 5: 623-640. illus., pl. xxi-xxiii. D.1930. no.4.

Okabe, S.
Mitosen im keimenden embryo von Sargassum horneri (Turn.) Ag. Sci. Rep. Toholu Imp. Univ. 4. Ser. (Biol.) 5: 757-762. pl. xxv-xxvi. D. 1930. no.4.

Scient. Agr. (Ottawa)

Clarke, A. E.
Inheritance of the dwarf branching habit in sweet clover. Scient. Agr. 11: 326-332. F. 1931. no.6.

Kirk, L.
Inheritance of dwarf branching habit in a new variety of sweet clover and its potential economic value in breeding. Scient. Agr. 11: 315-325. illus. F.1931. no.6.
Alpha sweet clover.

Strong, W. J.
Breeding experiments with the cucumber (Cucumis sativus L.) Scient. Agr. 11: 333-346 incl. illus., 2 pl. F.1931. no.6.

So. African Gard. (Johannesburg)

Bolus, L.

Plants -- new or noteworthy (cont.) Three new species of Ornithogalum. South African Gard. 21: 13-14. illus. Ja.1931. no.1.

O. watermeyeri, O. vandermerwei, O. splendens.

South Afr. Journ. Sci. (Johannesburg)

Almeida, A.G. de

On the plant poisons of the natives of Mozambique. So. Afr. Journ. Sci. 27: 296-302. N. 1930.

Copeman, P. R. v.d.R.

A note on the abnormalities in the composition of organes. So. Afr. Journ. Sci. 27: 310-316. N. 1930.

Levyns, M. R.

Floral evolution and geographical distribution in Lobostemon. So. Afr. Journ. Sci. 27: 317-322. No. 1930.

Marloth, R.

A revision of the group Virosae of the genus Euphorbia as far as represented in South Africa. So. Afr. Journ. Sci. 27: 331-340. pl.iv-vi. N. 1930.

Mogg, A.O.D.

An aut-ecological note on the poisonous "gifblaar" (Dichapetalum cymosum) (Hook) Engl. So. Afr. Journ. Sci. 27: 368-375. pl. vii, diagr. N.1930.

Phillips, E. P.

A brief historical sketch of the development of botanical science in South Africa and the contribution of South Africa to botany. So. Afr. Journ. Sci. 27: 39-80. 1930.

Already entered from So. African Gard.

Reinecke, O.S.H.

The relation of seed formation to fruit development of the pear. So. Afr. Journ. Sci. 27: 303-309. pl. iii. N. 1930.

South Afr. Journ. Sci. (cont.)

Saxton, W. T.
The root nodules of the Podocarpaceae.
So. Afr. Journ. Sci. 27: 323-325. illus.
N. 1930.

Smith, N.J.G. & Rattray, J.M.
Netblotch, spotblotch, and leaf-stripe diseases of barley in South Africa. So. Afr. Journ. Sci. 27: 341-351. illus. N.1930.

Verwoerd, L.
Descriptions of some new species of South African fungi and of species not previously recorded from South Africa. So. Afr. Journ. Sci. 27: 326-330. N. 1930.
Cercospora oliniae, Septoria knowltoniae, Cladosporium baccae, Diplodia monsterae, Pestalotia watsoniae, Coccochora lebeckiae, n.sp.

Succulenta (Leeuwarden)

Bertram,
Opuntia canterai Arechavaleta. Succulenta 13: 21-24. illus. F.1931. no.2.

Houten, J.M. v.d.
Aloe's,V. Succulenta 13: 24-26. illus. F.1931. no.2.

Trans. Sci. Soc. China.

Ho, W.T.H.
Physiology of parasitism in cabbage wilt caused by Fusarium conglutimans. Trans. Sci. Soc. China 6: 69-104. illus. 1930.

Tribune Hort. (Bruxelles)

La Caux, E. de
La chlorose des plantes. Tribune Hort. 16: 65-69. Ja.31, 1931. no.741.

Tropenpfl. (Berlin)

Morstatt, H.
Weiteres uber blattkrankheiten der sisalagave. Tropenpfl. 34: 5-13. Ja.1931. no.1.

U.S. Dept. Agr. Circ.

McKee, R., Schoth, H.A. & Stephens, J.L.
Monantha vetch. U.S. Dept. Agr. Circ. 152. 13 p. illus. Ja.1931.
Vicia monantha.

U.S. Dept. Agr. Plant Dis. Rep.

Haskell, R.J., Rose, R.C., Brentzell, W.E. & Walker, E.A.
Why so much smut in spring wheat? The results of the 1930 survey to collect information on the prevalence of stinking smut or bunt and methods of seed treatment followed in selected spring wheat counties. U.S. Dept. Agr. Plant Dis. Rep. Suppl. 77: 97-139. 7 pl. N.1, 1930 (rec'd F.1931)

McWhorter, F. P.
Further report on rose mosaic in Oregon. U.S. Dept. Agr. Plant Dis. Rep. 15: 1-3. F.1, 1931. no.1.

McWhorter, F.P.
Ramularia blight of narcissus. U.S. Dept. Agr. Plant Dis. Rep. 15: 3-4. map. F.1, 1931. no.1.
R. vallisumbrosae.

Verh. Zool.-Bot. Ges. Wien.

Bojko, H.
Heleocharis vierhapperi nov.spec. Eine neue sippe aus den Dolomiten. Verh. Zool.-Bot. Ges. Wien 79: 300-307. illus. O.31, 1930. no.2/4.

Cufodontis, G.
Die namen Senecio integrifolius und helenitis in ihrer richtigen verwendung. Verh. Zool.-Bot. Ges. Wien 79: 297-299. O.31, 1930. no.2/4.

Handel-Mazzetti, H.
Ein bisher unbekanntes vorkommen nordischer Taraxaca in den Alpen. Verh. Zool.-Bot. Ges. Wien 79: 307-308. O.31, 1930. no.2/4.
T. reichenbachii, T. caratophorum.

Neumayer, H.
Floristisches aus Oesterreich einschliesslich einiger angrenzender gebiete. I. Verh. Zool.-Bot. Ges. Wien 79: 336-411. O.31, 1930. no.2/4.

Versl. en Meded.Plantenziektenk. Dienst. Wageningen.
Wageningen. Phytopathologische dienst.
Verslag over de werkzaamheden van den plantenziektenkundigen dienst in het jaar 1929.
Its Versl. en Meded. no.62. 142 p. xi pl. 1930.

Věstnik Českosl. Akad. Zeměd. (Praha)
Hampl, J.
O poškození vegetace při výrobě superfosfátu (On the injurious effect of the acid phosphate factories on vegetation). Věstník Českosl. Akad. Zeměd. 7: 24-26. Ja.1931. no.1.
In Czechoslovakian with brief English summary: p.26.

Klika, J.
O rostlinných společenstvech a jejich sukcesi na obnažených písečných lesních půdách ve střednim polabí. (Die pflanzengesellschaften und ihre sukzession auf den nackten sandigen waldböden in mittlerer elbedene.) Věstník Českosl. Akad. Zeměd. 7: 21-24. Ja. 1931. no.1.
In Czechoslovakian with German summary: p.23-23.

Polanský, B.
Příspěvky ke studiu ekologické a fysiologické povahy lesnich dřevin . I. (Beiträge zum studium des ökologischen und physiologischen charakters der forstlichen holzarten. (I). Nároky sosnových a smrkových semenáčku na vláhu. (Die anforderungen der kiefern- und fichtensämlinge an die feuchtigkeit). Věstnik Českosl. Akad. Zeměd. 7: 38-44. illus. Ja.1931.no.1
In Czechoslovakian with German summary: p. 43-44.

Vincent, G.
Věk jehličnatych dřevin a jakost jejich semen. (Das alter der koniferen und die qualität ihrer samen). Věstnik Českosl. Akad. Zeměd. 7: 48-53. Ja.1931. no.1.
In Czechoslovakian with German summery: p.51-53.

Vincent, G.
Věk jehličnatých dřevin a jakost jejich šišek. (Das alter der koniferen und die qualität ihrer zapfen). Věstník Ceskosl. Akad. Zeměd. 7: 44-48. Ja. 1931. no.1.
In Czechoslovakian with German summary: p.47-48.

Vict. Nat. (Melbourne)

Nicholls, W. H.

A botanical excursion to the Tallangatta valley. Vict. Nat. 47: 142-148. Ja.1931. no.9.

Williamson, H. B.

Notes on the Austral broomrape. Orobanche cernua Loefl., var. australiana Beck. Vict. Nat. 47: 149-151. illus. Ja. 1931. no.12.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Hollrung, M.

Ein beitrag zur lösung der frage nach der entstehungsweise des gewöhnlichen kartoffelschorfes. Wiss. Arch. Landw. Abt.A. Pflanzenbau 5: 201-246. illus. Ja.16, 1931. no.2.

Kleinau, E.

Untersuchungen über die veränderunger des korns verschiedener roggensorten unter dem einfluss von boden, temperatur, niederschlägen und sorte. Wiss. Arch. Landw. Abt.A.Pflanzenbau 5: 374-410. Ja. 16, 1931. no.2.

Zapiski Semenoved. (Ann. Essais Semences Leningr.)

Egorova, A. A., Bulatova, M.N. & Schulz, Z.M.

Materialy k poznaniiu prorastaniia i sozrevaniia semian (Materialien für kenntnis der keimung und reife von samen) Zapiski Semenoved. (Ann. Essias Semences Leningr.) 7: 58-63. 1930. no.2.

Russian with German summary.

Kamensky, K.

O vide krupnosemiannoi poviliki, zasoriaiushchei posevy i semena kleverov i liutservy v SSSR (Ueber die art der in den saaten und dem saatgut in U.S.S.R. vorkommende hrobseide). Zapiski Semenoved. (Ann. Essais Semences Leningr.) 7: 64-70. illus. 1930. no.2.

Russian with German summary.

Schulz, Z. M.

O gribkakh, nabliudavshikhsia na semenakh pri ikh prorashchanii (Ueber an keimenden samen beobachtete pilze). Zapiski Semenoved. (Ann. Essais Semences. Leningr.) 7: 51-57. 1930. no.2.

Russian with German summary.

V.13, no.3, p.29.

Zhurn. Opytn. Agron. Iugo-Vost.(Journ. Agr. Sci. S.-E. U.S.S.R.) (Saratov)

Ivanov, M.

Khod nakopleniia pitatel'nykh veshchesty u podsolnechnika v polevykh usloviiakh (Process of the accumulation of nutritive substances by sunflower in the field) Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 161-213. 1930.

Russian with English summary.

Pevnev, D. S.

O sakharistykh veshchestvakh b plodovo-iagodnom sortimente (About the sugar substances in fruits and berries). Zhurn. Opytn. Agron. Iugo-Vost.(Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 227-236. 1930. no.1.

Russian with English summary.

Apples, pears & 7 varieties of berries.

Richter, A. A. & Dvoretskaja, E.I.

K voprosu ob ustoichivosti rastenii Iugo-vostoka. Soleustoichivost ust'ichnogo apparata. (The problem of stability of plants of the South East. The salt resistance of the stomatal apparatus). Zhurn. Opytn. Agron. Iugo-Vost.(Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 75-85. 1930. no.1.

Russian with English summary.

Richter, A. A. & Zelengky, N.K.

K voprosu ob ustoichivosti rastitel'nykh organizmov. Stoiskost ust'ichnogo apparata pri potere listom vody (The problem of stability of vegetative organisms. The resistance of stomatal apparatus during the loss of water by the leaf). Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 86-90. 1930. no.1.

Russian with brief English summary.

Richter, A. A.

I khode nakopleniia efirnogo masla v plodakh kishnetsa (koriandra, Coriandrum sativum L.) (The accumulation of essential oil in the fruits of Coriandrum sativum L.) Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 91-100. illus. 1930. no.1.

Russian with English summary.

Zhurn. Opytn. Agron. Iugo-Vost.(Journ. Agr.Sci. S.-E. U.S.S.R.) (cont.)

Rodogin, M.
K voprosu o sposobakh rasprostraneniia tykvennogo antraknoza (Problem of the spread of the anthracnose of pumpkin). Zhurn. Opytn. Agron. Iugo-Vost.(Journ. Agr. Sci. S.-E.U.S.S.R.) 8: 221-226. 1930. no.1.
Russian with very brief English summary.
Insects principally of the genus Pimelia always present, wind also an agent.

Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie)

Aleksandrov, V.
Aleksandr Stepanovich Timofeev. Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 287-288. 1930. no.3.
Russian.

Andreev, V. N.
Vidy Plantago poliarnogo poberezh'ia Evropy (Die Plantago-arten der Polarküste Europas). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 291-304. illus. 1930. no.4.
P. subpolaris n.sp.
Russian with German summary & Latin diagnosis of new species.

Elenkin, A. A. & Hollerbach, M.M.
O polozhenii v sisteme slizistykh lishainikov Leptogium issatchenkoi Elenk. v sviazi s voprosom o znachenii individual'nykh (obratimykh) i nasledstvennykh (neobratimykh) variatsii (Sur la place qu'occupe Leptogium issotschenkoi Elenk. dans le système des lichens gelatineux, rattachée à la question de l' importance des variations individuelles (réversibles) et héréditaires (irréversibles). Zhurn. Russk. Bot.Obshch. (Journ. Soc. Bot. Russie) 15: 241-260. 1930. no.3.
Russian with French summary.

Hase, O.F.
Opyt ucheta sedumentatsii v poime po dannym mikhovogo pokrova (Sedimentationsbestimmungsversuche in der pojma nach der moosdecke). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 325-337. 1930. no.4.
Russian with German summary.

Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) (cont.)

Ivanov, L. A. & Kossovic, N.
O rabote assimiliatsionnogo apparata razlichnykh drevesnykh porod I (Ueber die tätigkeit des assimilationsapparates verschiedener holzarten.) I. Die kiefer. Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 195-240. 1930. no.3.

Lavrenko, E. M.
Lesnye reliktovye (tretichnye) tsentry mezhdu Karpatami i Altaem (Les centres de la conservation des relictes sylvestres tertiare entre les Carpathes et l'Altia) Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 351-363. illus. (maps) 1930. no.4.
Russian with French summary.

Poplavskaja, G. I.
Ob ekotipakh bekotorykh rasteniĭ v Krymu (Ueber die ökotypen einiger pflanzen der Krim). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 339-350. illus. 1930. no.4.
Russian with German summary.

Sochava, V. B.
O nekotorykh interesnykh rasteniiakh Anadyrskogo kraia (Ueber einige interessante pflanzen des Anadyr-gebiete). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 305-311. 1930. no.4.
Russian with German summary.

Solonitsyna, M. F.
K voprosy o zabolachivanii vyrubok (Zur frage der versumpfung von holzschlagstätten). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 261-285. 1930. no.3.
Russian with German summary.

Vasil'eva, L. N.
K flore Viatskoĭ gybernii v ee starykh granitsakh (Les plantes supplémentaires à la flore du gouvernement Vitaka dans les limites anciennes). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 15: 313-324. 1930. no.4.
Russian with very bried French summary.

Der Züchter (Berlin)

Rudloff, C. F.
Pfropfbastarde. (Sammelreferat). Der Züchter 3: 15-28. illus. Ja.1931. no.1.

Schilling, E.
Zur abstammungsgeschichte des leins. Der Züchter 3: 8-15. illus. Ja.1931. no.1.

Zuckerrübenbau (Hannover)

Hafekost, G.
Ueber die saugkraft der sich aus e inem rübenknäuel entwickelnden pflanzen. Zuckerrübenbau 13: 5-11. Ja. 1931. no.1.

Exper. Stat. Publ.

Gratz, L. O.,
Effect of seed-potato treatment on yield and rhizoctonosis in Florida from 1924 to 1929. Florida Agr. Exp. Stat. Bull. 220. 34 p. S.1930. (Rec'd F.1931)

Newell, W., Mowry, H. & Barnette, R.M.
The tung-oil tree. Florida Agr. Exp. Stat. Bull. 221. 63 p. illus. O.1930 (Rec'd F.1931)

Ezekiel, W. N.
Studies on the nature of physiologic resistance to Puccinia graminis tritici. Minnesota Agr. Exp. Stat. Tech. Bull. 67. 62 p. O. 1930.

Ohio agricultural experiment station.
Botany and plant pathology. In its Ann.Rep. 48 (1929/30, Bull.470): 57-78. illus. Ja. 1931.
H.C. Young, chief.

Young, H. C.
Sugar beet root rot control. Ohio Agr. Exp. Stat. Bi-month. Bull. 148: 15-18. Ja./F.1931.

New Books.

Ascherson, P. & Graebner, P.
Synopsis der Mitteleuropäischen flora...nach Aschersons tode fortgesetzt von P. Graebner, sen.und P. Graebner, fil. 118/119 lfg. (v.12, pt.2. Compositae (Hieracium bearb. von H. Zahn) bog. 1-10) Leipzig, Borntraeger, O.30, 1930.

New Books.(cont.)

Bakker, J. N.
Erfelijkheidsonderzoek van eenige delphinium-speciec. Amsterdam, 1930.

Choux, P.
Les sapindacées de Madagascar. Tananarive, 1927(Mémoires de l'Académie malgache f. IV)

Druce, G. C.
The flora of Northamptonshire. .. Arbroath, T. Buncle & Co., 1930.

France. Office national météorologiques.
Les influences météorologiques et la culture du blé. Paris, 1927.

Handel-Mazzetti, H.
Symbolae sinicae... III. Lichenes (Uebersicht über sämtliche bisher aus China bekannten flechten von A. Zahlbruckner. Wien, J. Springer, 1930.

Irvine, F. R.
Plants of the Gold Coast. Oxford, Univ. press, 1930.
Vernacular names: p.449-521.

Kirchner, O. von
Lebensgeschichte der blütenpflanzen Mitteleuropas... lfg. 37 (bd.3, abt.3, bog. 45-50). Stuttgart, 1930.
Dioscoreaceae (schluss) von W. Brenner p.705-719.
Amaryllidaceae von F. Buxbaum. p.719-800.

Rabenhorst, L.
Dr. L. Rabenhorst's Kryptogamen-flora... 7 bd. Die kieselalgen... von F. Hustedt... lfg. 5. Leipzig, 1930.

Rabenhorst, L.
Dr.L. Rabenhorst's Kryptogamen-flora... 10 bd. 2 abt. hrsg. von Dr. Kolkwitz. Silicoflagellatae von K. Gemeinhardt. - Coccolithineae von J.Schiller. Leipzig, 1930.

Saunders, A. R.
Maize in South Africa. Johannesburg, 1930. (South African agricultural series v.7)
Diseases: p. 163-183.

Reprints from Journals not yet rec'd.

Hiura, M.
Further not on the downy mildew of Setaria italica. Reprinted from Byochu-gai zasshi (Journ. Plant Prot.) v.17, 1930. 7 p.
Japanese with typewritten English abstract.

Hiura, M.
Studies on some downy mildews of agricultural plants. IV. On the downy mildew of Welsh onion (Report I) Reprinted from Byochu-gai zasshi (Journ. Plant Prot.) v.17. Ap.1930. 10 p.
Japanese with typewritten English abstract.

Hiura, M.
Studies on some downy mildews of agricultural plants IV. On the downy mildew of Welsh onion (Report II) Reprinted from Agr. & Hort., v.5, no.8, p.1008-1014. 1930.
Japanese with English abstract.

Translations filed in Library of Bur. of Plant Industry.

Neuwirth, F.
Beziehung der rübennematode Heterodera schachtii Schmidt zur ernährung der zucherrübe. (Relation of the beet nematode Heterodera schachtii Schmidt to the nutrition of the beet). Ernähr. Pflanze. 26: 525-532. D.1, 1930. no.23.

Correction.

V.13, no.2, p.27.
Oesterr. Bot. Zeitschr.
Uphof, J.C.Th.
Baltis should read Batis.

Non-current indexing.

Asia (Concord, N.H.)

Russell, P.
Japanese spring in America. Asia 30: 315-319, 378. illus. My.1930. no.5.

Bergcultures (Batavia, Java)

Wortelkraag-ziekte op succirubra-zaadbedden. Bergcultures. 4: 218. Mr.1, 1930. no.9.
Signed v.B.

Non-current indexing.(cont.)

Biull. Vordnezh. Obshch. Estestv. Gosud. Univ. (Bull. Soc. Nat. Voroneje)

Nikiforovskii, P.M.
K voprosu o rastitel'noĭ ureaze i fitokhimaze (Zur kenntnis der pflanzlichen urease und phytochymase). Biull. Voronezh. Obshch. Estestv. Gosud. Univ. (Bull. Soc. Nat. Voroneje). 2: 159-160. 1929. no.3/3.
Russian with German summary.

Bol. Min. Agr. Industr. e Comm. Brazil. (Rio de Janeiro)

Teixeira da Fonseca, E.
Plantas medicinales brasileiras, jatahy ou jatobá. Bol. Min. Agr.Industr. i Comm.Brazil. 19 (1): 637-639. My.1930.
Hymenaea courbaril.

Vampré, J.
Origem dos vocabulos "abacaxi" e "ananaz". Bol. Min. Agr., Industr. e Comm. Brazil. 19(2): 24-26. Jl. 1930.
Ananas sativa.

Bol. Patol. Veg. y Entom. Agr. (Madrid)

Alonso Rodriguez, J.
Datos sobre los enemigos de las plantas cultivadas en Galicia. Bol. Patol. Veg. y Entom. Agr. 4: 107-111. D.1929 no. 15/18.

Benlloch, M.
Algnuos casos dudosos en la patologia de la vid. Bol. Patol. Veg. y Entom. Agr. 4: 112-116. D. 1929. no.15/18.

Benlloch, M.
La "roña" o "moteado" de perales y manzanos. Bol. Patol. Veg. y Entom. Agr. 4: 140-144. illus. D. 1929. no.15/18.

Berro, J. M.del.
Una de las causas de pudrición de las uvas de embarque. Bol. Patol. Veg. y Entom. Agr. 4: 105-106. D.1929. no.15/18.

González de Andrés, C.
Notas sobre la hernia de la col (Plasmodiophora brassicae Wor.) Bol. Patol. Veg. y Entom. Agr. 4: 98-104. illus. D.1929. no.15/18.

Non-current indexing. (cont.)

Bol. Patol.Veg. y Entom. Agr. (cont.)
Vellando, I.
El peligro del mildiu. Bol. Patol. Veg. y Entom. Agr. 4: 137-139. illus. D.1929.no.15/18.

Bot. Gaz. (Chicago)
Hoffmann, W. E. & Tilden, J.E.
Basicladia, a new genus of Cladophoraceae. Bot. Gaz. 89: 374-384. illus. Je.1930. no.4.
B. crassa, n.sp., B. chelonum, n.comb.

Sherff, E. E.
New or noteworthy Compositae. IV. Bot. Gaz. 89: 362-373. Je.1930. no.4.
Bidens & Coreopsis.

Bull. Sect. Sci. Acad. Roumaine. (Bucarest)
Savulescu, T. & Rayss, T.
Plantes nouvelles pour la flore de Bessarabia. Bull. Sect. Sci. Acad. Roumaine. 12(3): 4-6. 1929.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no. 4. Feb.16-28, 1931.

*

Agr. Prat. Pays Chauds (Paris)

Trautwein Dupertuis, C.B.
La pollinisation artificielle du cocotier.
Agr. Prat. Pays Chauds 2: 85-90. Feb.1931. no.8.

Amer. Journ. Bot.

Cheney, R. H.
Geographic and taxonomic distribution of American plant arrow poisons. Amer. Journ. Bot. 18: 136-145. illus. F.1931. no.2.

Howard, F. L.
The life history of Physarum polycephalum. Amer. Journ. Bot. 18: 116-133. illus., pl. xii-xix. F.1931. no.2.

Johansen, D. A.
The chromosomes of Piper subpeltatum. Amer. Journ. Bot. 18: 134-135. illus. F.1931. no.2.

Kendall, J.
An aberrant Nicotiana with 91 chromosomes. Amer. Journ. Bot. 18: 114-115. pl. xi. F.1931. no.2.

Kostoff, D.
A fertile triple hybrid, Nicotiana tabacum x (Nicotiana sylvestris x Nicotiana rusbyi). Preliminary report. Amer. Journ. Bot. 18: 112-113. pl.x. F. 1931. no.2.

Taubenhaus, J. J., Ezekiel, W. N. & Lusk, J. P.
Preliminary studies on the effect of flooding on Phymatotrichum root-rot. Amer. Journ. Bot. 18: 95-101. F.1931. no.2.

Wallace, R. H.
Studies on the sensitivity of Mimosa pudica. I. The effect of certain animal anesthetics upon sleep movements. Amer. Journ. Bot. 18: 102-110. pl. ix. F.1931. no.2.
Experiments also with Oxalis stricta & Marsilia macropus.

* See at end of list

Amer. Journ. Pharm. (Philadelphia)
Starker, T. J. & Wilcox, A. R.
Cascara. Amer. Journ. Pharm. 103: 73-97. illus. F.1931. no.2.

Ann. Epiph. (Paris)
Dufrénoy, J. & Labrousse, F.
Influence du p^H du milieu de culture sur la pénétration du rouge neutre dans les cellules du tabac. Ann. Epiph. 16: 95-102. illus. Mr./Ap.1930. (Rec'd F.1931) no.2.

Foex, E. & Rosella, Et.
Recherches sur le piétin. Ann. Epiph. 16: 51-82. illus. pl.i-x. Mr./Ap. 1930 (Rec'd F.1931) no.2.
Organism x, differs from Leptosphaeria herpotrichoides, Comparisons made with Cercosporella herpotrichoides, Ophiobolus graminis, O. herpotrichus, and Wojnowicia graminis.

Regnier, R.
Etat actuel de la question du chancre du peuplier. Ann. Epiph. 16: 83-94. pl. i. Mr./Ap. 1930 (Rec'd F.1931) no.2.

Ann. Hist.-Nat. Mus. Nat. Hungarici. (Budapest)
Jávorka, S.
Kitaibel herbariuma (Herbarium Kitaibelianum) Ann. Hist.-Nat. Mus. Nat.Hungarici 36: 97-210. 1929.

Soó, R.v.
Revision der orchideae-ophrydineae von Ostasien und dem Himalaya. Ann. Hist.-Nat. Mus. Nat. Hungarici. 26: 339-384. 1929.

Ann. Sci. Agron. (Paris)
Voisenat, M.
Controle de l'état sanitaire des semences a la station officielle de controle des semences de Wageningen. Ann. Sci. Agron. 47: 744-754. N./D. 1930. no.6.

Ann. Sci. Nat. Bot. (Paris)
Ernst-Schwarzenbach, M.
Contribution a l'étude des chromosomes chez le genre "Montbretia" D.C. Ann. Sci. Nat. Bot. X, 12: 241-247. illus. D.1930. no.2.

Jonesco, S.
Les anthocyanidines et les leucoanthocyanidines chez les végétaux. Ann. Sci. Nat. Bot. X, 12: 249-305. illus. D.1930. no.2.

Costantin, J.
L'action du radium et des rayons x. Ann. Sci. Nat. Bot. X,12: i-xxvi. illus. D.1930. no.2.

Ann. Rep. Dept. Agr. Bengal.
Bengal. Dept. of agriculture.
Annual report of the economic botanist... 1929/30. In Ann. Rept. Dept. Agr. Bengal 1929/30: 37-46. 1930.
S. G. Sharangapani, acting; Mycology: p.41-44, P.C. Kar assistant in charge.

Ann. Rep. Dept. Agr. Kenya.
McDonald, J.
Annual report of the mycologist for 1929. Ann. Rep. Dept. Agr. Kenya. 1929: 464-479. 1930.

Mettam, R.W.M.
Poisonous plants of Kenya. Ann. Rept. Dept. Agr. Kenya. 1929: 377-417. 1930.
Plants poisonous to stock.

Ann. Rep. East Afr. Agr. Res. Stat., Amani.
Storey, H. H.
Report of the plant pathologist. Ann. Rep. East Afr. Agr. Res. Stat. Amani 2(1929/30): 13-16. 1930.

Ann. Rep. Pom. & Fruit Grow. Soc. Quebec.
Coulson, J. G. & Godbout, F. L.
Quebec spray service report for 1929. Ann. Rep. Pom. & Fruit Grow. Soc. Quebec 36: 84-98. illus. [1930]
Mainly concerned with apple scab.

Kelsall, A., Hockey, J. F. & Walker, G. P.
Experiments with spray mextures. Ann. Rep. Pom. & Fruit Grow. Soc. Quebec 36: 26-35.[1930]

Arch. Protistenk. (Jena)

Anachin, J. K.
Ueber einige neue Chlamydomonas-arten. Arch. Protistenk. 73: 131-136. illus. Ja. 29, 1931. no.1.
Chlamydomonas oblonga, C. insignis, C. vulgaris, C. brevicauda.

Hurst, C.T. & Strong, D. R.
Studies on the plates of the fresh-water Ceratium, the so-called Ceratium hirundinella. Arch. Protistenk. 73: 104-110. illus. Ja.29, 1931. no.1.

Milovidov, P. F.
Cytologische untersuchungen an Plasmodiophora brassicae Woron. Arch. Protistenk. 73: 1-46. illus., pl. i-iii (2 col.) Ja.29, 1931. no.1.

Pascher, A.
Eine neue braune fadenalge des süsswassers (chrysophycee). Arch. Protistenk. 73: 60-72. illus., pl.vi. Ja.29, 1931. no.1.
Apistonema pyrenigerum.

Pascher, A.
Ueber eigenartige zweischalige dauerstadien bei/zwei tetrasporalen chrysophyceen (chrysocapsalen). Arch. Protistenk. 73: 73-103. illus. Ja.29, 1931. no.1.
Chalkopyxis nov.gen. (C.tetrasporoides) Chrysotilos nov. gen. (C.ferrea).

Scherffel, A.
Ueber einige phycomyceten. Arch. Protistenk. 73: 137-146. illus., pl.9 (col.) Ja.29, 1931. no.1.
Plectrachelus? rotatoriorum, Rhizophidium pseudodistomum, R. clinopus, Chytridium pusillum, n.spp.

Arch. Suikerind, Nederl.-Indië (Soenbaja)

Koningsberger, V. J. & Honert, T. H. van den
Over de oozaak der z.g. "kalimati-ziekte". Arch. Suikerind. Nederl.-Indië. 39(2): 28-39. Ja.13,1931.

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. (Rome)

Petri, L.
Un'estesa infezione de "Pythium" su piante de grano. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 11: 1066-1068. June 15, 1930. no.12.
Not P. butleri nor the neighboring species P. splendens or P. de baryanum.

Sani, G.
Ricerche intorno all'oleastene. (Idrocarburo contenuto nel frutto d'olivo). Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 12: 238-242. 1930. no.5/6.

Bergcultures (Batavia, Java)

Overzicht van de ziekten an plagen van de thee over het jaar 1930. Bergcultures 5: 64. Ja.17, 1931. no.3.

Zboray, E.von
Roode wortelschimmel bij jonge Heveaboomen, in verband met rejuvenatie of herontginning van oude aanplantingen. Bergcultures 5: 34-37. illus. Ja.10, 1931. no.2.

Ber. Deut. Bot. Ges. (Berlin)

Bethge, H.
Einige fälle von massenentwicklung bei diatomeen. Ber. Deut. Bot. Ges. 48: 490-503. illus. Ja.29, 1931. no.10.

Brauner, L. & Bünning, E.
Geoelektrischer effekt und elektrotropismus. (Vorläufige mitteilung). Ber. Deut. Bot. Ges. 48: 470-476. illus., pl.vii. Ja.20, 1931. no.10.

Kylin, H.
Ueber heterogamie bei Enteromorpha intestinalis. Ber. Deut. Bot. Ges. 48: 458-464. illus. Ja.29,1931. no.10.

Mansfeld, R.
Die auslösung der pollinarium-bewegung bei Catasetum L.C. Rich. Ber. Deut. Bot. Ges. 48: 516-524. illus. Ja.29, 1931. no.10.

Ber. Deut. Bot. Ges. (cont.)

Sapehin, L. A.
Ueber die faktorielle natur der unterschiede im verlaufe der reduktionsteilung (Vorläufgie mitteilung). Ber. Deut. Bot. Ges. 48: 443-457. illus. Ja.29, 1931. no.10.

Schiemann, E.
Ueber eine praktisch und phylogenetisch wichtige mutation bei gerste nebst einigen bemerkungen über mutation bei getreide. Ber. Deut. Bot. Ges. 48: 477-489. illus. Ja.29, 1931. no.10.

Ulbrich, E.
Ueber den vermeintlichen parasiten "Poria agaricicola (Ludw.) Sacc." auf Amanita-arten. Ber. Deut Bot. Ges. 48: 465-469. pl.vi. Ja. 29, 1931. no.10.

Werth, E.
Die landbaugebiete der erde. Ber. Deut. Bot. Ges. 48: 504-515. illus. (map). Ja.29, 1931. no.10.
Zur geographie und geschichte der kulturpflanzen und haustiere IV.

Ber. Deut. Chem. Ges. (Berlin)

Kuhn, R., Winterstein, A. & Roth, H.
Ueber den polyen-farbstoff der azafranillo-wurzeln. Ber. Deut. Chem. Ges. 64: 333-341. F.4, 1931. no.2.
Ueber konjugierte doppelbindungen XVII.

Kuhn, R. & Winterstein, A.
Viola-xanthin, das xanthophyll des gelben stiefmütterchens (Viola tricolor). Ber. Deut. Chem. Ges. 64: 326-332. F.4, 1931. no.2.
Ueber konjugierte doppelbindungen XVI.

Thies, W.
Ueber den abbau der salze organischer säuren durch den schimmelpilz Aspergillus fumaricus. Ber. Deut. Chem. Ges. 64: 214-218. F.4,1931. no.2.

Better Fruit (Portland, Ore.)

Bush, C. D.
Blight and cross pollination. Better Fruit. 25(8): 20. F.1931. no.8.
Walnut.

Biochem. Journ. (London)

Krogh, A., Lange, E. & Smith, W.
On the organic matter given off by algae. Biochem. Journ. 24: 1666-1671. 1930. no.6.

Narasimhamurty, N. & Sreenivasaya, M.
Determination of maltose in plant extracts by maltase. Biochem. Journ. 24: 1734-1736. 1930. no.6.

Narayanamurti, D. & Ramaswami, C. V.
Irradiation of Dolichos tyrosinase. Biochem. Journ. 24: 1655-1658. 1930. no.6.

Narayanamurti, D. & Ramaswami, C. V.
Vegetable proteins. I. The proteins of Dolichos lablab. Biochem. Journ. 24: 1650-1654. illus. 1930. no.6.

Biochem. Zeitschr. (Berlin)

Bernhauer, K., Siebenäuger, H. & Tschinkel, H.
Zum chemismus der citronensäurebildung durch pilze. IV. Ueber die umwandlung der zuckersäure. Biochem. Zeitschr. 230: 466-474. Ja.22, 1931. no.4/6.

Bernhauer, K., Duda, F. & Siebenäuger, H.
Zur charakterisierung der Aspergillus niger-stämme. III. Weitere züchtungsversuche und vergleich verschiedener pilzstämme. Biochem. Zeitschr. 230: 475-483. Ja.22,1931. no.4/6.

Ermakoff, A. I. & Iwanoff, N. N.
Ueber die atnung der samen von ölpflanzen. Biochem. Zeitschr. 231: 79-91. Ja.31, 1931. no.1/3.

Koolhaas, D. R.
Das vorkommen von methylmercaptan in den blättern von Lasianthus laevigatus Bl., Lasianthus lucidus Bl., Lasianthus purpureus Bl., Lasianthus stercorarius Bl. und Lasianthus bracteolatus Miq. Biochem. Zeitschr. 230: 446-450. Ja.22,1931. no.4/6.

Biochem. Zeitschr. (cont.)
Linser, H.
Die brauchbarkeit zweifarbiger indikatoren zur photometrischen bestimmung der wasserstoffionenkonzentration. Biochem. Zeitschr. 230: 285-289. illus. Ja.22, 1931. no.4/6.

Blumen u. Pflanzenb. (Berlin)
Pape, H.
Krankheiten und schädlinge an pelargonien und ihre bekämpfung. Blumen u. Pflanzenb. 46: 21-23. illus. Ja.31, 1931. no.2.

Bol. Min. Agr. Portugal.
Melo de Figueiredo, J.de.
Subiídios para o estudo da flora lenhosa e herbácea da mata de Bucaco. Bol. Min. Agr. Portugal 12: 23-56. Ja./Je.1930 (Rec'd F.1931) no.1/6.

Bol. R. Soc. Españ. Hist. Nat. (Madrid)
Caballero, A.
Plantas herborizadas en 1923 en la región de Larache (Marruecos). Bol. R. Soc. Españ. Hist. Nat. 30: 445-450. D.5, 1930. no.9.
Andryala gracilis var. gigantea, Echinops spinosus var. subinermis var. nov.

Ruiz de Azua, J.
La variación en el Polypodium vulgare L. Bol. R. Soc. Españ. Hist. Nat. 30: 461-466. illus. D.5, 1930. no.9.

Boll. R. Staz Patol. Veg. Roma (Firenze)
Biraghi, A.
Anomalie anatomiche di tralci di vite attribuibili all'azione di freddi tardivi. Boll. R. Staz. Patol. Veg. Roma 10:329-353. illus. 1931. no.3.

Curzi, M.
Una nuovo specie di Microascus. Boll. R. Staz. Patol. Veg. Roma 10: 302-310. illus. pl. 7. 1931,no.3.
M. cirrosus.

Petri, L.
L'azione stimolante e disinfettante dei trattamenti dei semi di grano eseguiti con sali di mercurio. Boll. R. Staz. Patol. Veg. Roma 10: 326-329. 1931. no.3.

Boll. R. Staz. Patol. Veg. Roma (cont.)

Petri, L.
Azione tossica dell'arsenito sodico sopra le spore del Gloeosporium olivarum Alm. Boll. R. Staz. Patol. Veg. Roma 10: 359-361. 1931. no.3.

Petri, L.
Un'estesa infezione di Pythium su piante di grano. Boll. R. Staz. Patol. Veg. Roma 10: 285-301. illus. 1931. no. 3.

Petri, L.
La formazione degli organi della riproduzione sessuale della Phytophthora (Blepharospora) cambivora in coltura pura. Boll. R. Staz. Patol. Veg. Roma 10: 361-365. illus. 1931. no.3.

Petri, L.
I risultati di alcune ricerche sperimentali sopra il "mal secco" degli agrumi. Boll. R. Staz. Patol. Veg. Roma 10: 353-359. 1931. no.3.

Sibilia, C.
La moria degli olmi prodotta da "Graphium ulmi" Schwarz. Boll. R. Staz. Patol Veg. Roma 10: 311-325. illus. 1931. no.3.

Bot. Arch. (Leipzig)

Böhm , A.
Die Adriatischen ceratien. Bot. Arch. 31: 349-385. illus. Ja.1931. no.3/4.
English abstract: p.384.

Borm, L.
Die wurzelknöllchen von Hippophaë rhamnoides und Alnus glutinosa. Bot. Arch. 31: 441-488. illus. Ja.1931. no.3/4.
English abstract: p.487.

Hasselbaum, G.
Cytologische und physiologische studien zur ericoiden endotrophen mycorhiza von Empetrum nigrum. Bot. Arch. 31: 386-440. illus. Ja.1931. no.3/4.
English abstract: p.438-439.

Krylow, P.
Phyto-statistische übersicht vom alpinen gebiet des Altai. Bot. Arch. 31: 267-311. Ja.1931. no.3/4.

Bot. Arch. (cont.)

Lohmann, P.
Vergleichende untersuchungen über die bestimmung des gehaltes von böden an pflanzennährstoffen Bot. Arch. 31: 489-518. Ja. 1931. no.3/4.
English abstract: p.516.

Pfeiffer, H.
Ueber die ökologischen bedingungen des formationswandels an schlagflächen. Bot. Arch. 31: 543-552. Ja.1931. no.3/4.
Ein sammelreferat.

Schulz, O. E.
Heliophila-studien. Bot. Arch. 31: 519-542. illus. Ja.1931. no.3/4.

Bull. Agr. Congo Belge. (Bruxelles)

Beeli, M.
Evolution de la mycologie au Congo Belge. Bull. Agr. Congo Belge 21: 392-394. Je.1930 (Rec'd F.1931)no. 2.
Brief account of work done on Congo fungi.

Janssens, P.
Maladies. In his "Le café robusta dans l'Angola". Bull. Agr. Congo Belge 21: 185-187. Je.1930. (Rec'd F.1931)

Quarré, P.
Les plantes vénéneuses au Katanga. Bull. Agr. Congo Belge. 21: 501-504. Je. 1930 (Rec'd F.1931) no.2.

Bull. Cl. Sci. Acad. Roy. Belg. (Bruxelles)

Bouillenne, Mme. & Bouillenne, R.
Recherches expérimentales sur l'agent toxique du pollen d'Ambrosia div.sp. (compositacées). Bull. Cl. Sci. Acad. Roy. Belg. V,16: 1052-1073, 3 pl., 3 tab. 1930. no.8/9.

Bouillenne, R.
Etudes sur la perméabilité des cellules de Tradescantia virginica et d'Allium cepa. Bull. Cl. Sci. Acad. Roy. Belg. V,16: 1027-1047. 1930. no.8/9.

Bull.Cl. Sci. Acad. Roy. Belg. (cont.)

Bouillenne, R.
Contribution à l'étude des phénomènes d'osmose dans les cellules végétales. Un appareil nouveau pour la mesure des vitesses de pénétration des solutions salines dans le protoplasme végétal. Bull. Cl. Sci. Acad. Roy Belg. V,16: 1017-1026. 1 pl. 1930. no.8/9.

Bouillenne, R. & Bouillenne, Mme.
La sexualité et les oxydations cellulaires chez Mercuriales annua. Bull. Cl. Sci. Acad. Roy. Belg. V, 16: 1047-1051. 1930. no.8/9.

Wildeman, E.de.
Empattements, contreforts, racines-échasses. Bull. Cl. Sci. Acad. Roy. Belg. V, 16: 989-995. pl. i-v. 1930. no.8/9.

Bull. Misc. Inform. Kew (London)

Holland, J. H.
Essential oils. Bull. Misc. Inform. Kew 1931: 107-109. no.2.
Mawah oil (Pelargonium graveolens)
Pe-Mou oil (Fokienia hodginsii)

Kew Royal gardens.
Decades kewenses, Plantarum novarum in herbario Horti regii conservatarum. CXXVI. Bull. Misc. Inform. Kew 1931: 96-105. illus. no.2.
Ascopholis gen.nov. (A. gamblei)

Marquand, C.V.B.
New Asiatic gentians. II. Bull. Misc. Inform. Kew 1931: 68-88. no.2.

Prain, D. & Burkill, I.H.
Dioscorea: section Stenocorea. Bull. Misc. Inform. Kew 1931: 88-91. no.2.
D.sumatrana n.sp.

Price, W. R.
On the distribution of Pseudolarix fortunei, the golden larch. Bull. Misc. Inform. Kew 1931: 67-68. no.2.

Smith, C. A.
A new Harveya from the Transvaal highveld. Bull. Misc. Inform. Kew 1931: 65-67. pl. iv-v. no.2.
H. anisodonta.

Bull. Misc. Inform. Kew (cont.)

Sprague, T. A.
The botanical name of "tara". Bull. Misc. Inform. Kew 1931: 91-96. no.2.
Caesalpina spinosa.

Stearn, W. T.
Nothoscordium tubiflorum. Bull. Misc. Inform. Kew 1931: 107. no.2.
N. tubiflorum (Allium tubiflorum)

Bull. Soc. Sci. Nat. Maroc (Rabat)

Miège, E.
Note sur le ble barbu d'Oran. Bull. Soc. Sci. Nat. Maroc 10: 81-91. pl. iii-iv. June 30, 1930. no.1/6.

Werner, R. G.
Contribution a la flore cryptogamique du Maroc. Bull. Soc. Sci. Nat. Maroc 10: 98-105. June 30, 1930. no.1/6.

Canad. Hort. (Peterboro, Ont.)

Berkeley, G. H.
Diseases of plums and their control. Canad. Hort. 54: 29-30. Feb. 1931. no.2.

Young, H. C.
Cherry leaf spot control. Canad. Hort. 54: 22. Feb. 1931. no.2.

Chacaras e Quintaes (S.Paulo)

Figueiredo, R. de
Rosas e roseiras. A capital de minas enfeitada de rosas. Chacaras e Quintaes 43: 43-46. illus. Ja. 15, 1931.

Citrus Indust. (Tampa, Fla.)

Lord, E. L.
Early citrus history in China. Citrus Indust. 12(2): 8, 29. F.1931. no.2.

Compt. Rend. Acad. Sci. Paris.

Heim, R.
Sur les liens phylétiques entre les agarics ochospores et certains gastéromycètes. Compt. Rend. Acad. Sci. Paris. 192: 291-294. Feb.2,1931. no.5.

Compt. Rend. Acad. Sci. Paris (cont.)

Hocquette, M.
Influence des substances sécrétées par les radicelles en voie de formation sur le noyau des cellules corticales voisines. Compt. Rend. Acad. Sci. Paris 192: 294-295. Feb.2, 1931. no.5.
Peas, beans, castor oil plant.

Margaillan, L.
L'huile de Wrightia annamensia Dubard et Eberhardt, huile semblable à l'huile de ricin. Compt. Rend. Acad. Sci. Paris 192: 373-374. F.9, 1931. no.6.

Munerati, O.
Compétition entre Ustilago tritici et Tilletia tritici chez une même plante de blé. Compt. Rend. Acad. Sci. Paris 192: 296-297. Feb.2, 1931. no.5.

Varitchak, B.
Remarques sur la répartition du cytome au moment de la formation des zoospores. Compt. Rend. Acad. Sci. Paris. 192: 371-372. illus. F.9,1931. no.6.
Saprolegnia.

Compt. Rend. Soc. Biol. Paris

Bretin, Mánceau, P. & Rey.
Absorption du potassium par le Penicillium glaucum cultivé sur liquide de Raulin additionné des doses croissantes d'azotate de potassium. Compt. Rend. Soc. Biol. Paris 106: 197-198. Ja.30, 1931. no.3.

Bretin, Manceau, P. & Cochet
Métabolism des sucres, des phytostérines et des lécithines chez le Penicillium glaucum, cultivé sur liquide types de Raulin additionné de doses croissantes d'azotate de potassium. Compt. Rend. Soc. Biol. Paris 106: 195-196. Ja.30, 1931. no.3.

Sartory, A., Sartory, R. & Meyer, J.
Etude botanique et biologique d'un nouvel Aspergillus. Compt. Rend. Soc. Biol. Paris. 106: 210-212. Ja.30, 1931. no.3.
A. polychromus.

Empire Mark. Bd. (Publ.) (London)
Wardlaw, C. W.
The behaviour and diseases of the banana in storage and transport. Empire Mark. Bd. (Publ.) no.36. 59 p. illus. Ja.1931.

Ernähr. Pflanz (Berlin)
Maloch, M.
Kali als mittel zur bekämpfung des borstengrases (Nardus stricta L.) Ernähr. Pflanze 27: 54-56. illus. F.1, 1931. no.3.

Faserforsch. (Leipzig)
Neubert, H.
Ersatzbildung beim flachs. Faserforsch. 9: 9-62. illus. 1931. no.1.

Ross, J.H.H.
Die Calotropis- oder widoeri-bastfaser. Faserforsch. 9: 73-75. 1931. no.1.

Flor. Exch. (N.Y.)
Kern, C. E.
A new method of propagating the lilac. Flor. Exch. 76(8): 27, 36. illus. F.21, 1931. no.8.

Macdonald, M. Q.
Practical plant patent problems -- and answers. Flor. Exch. 76(7): 11. F.14, 1931. no.7.

Nearing, G. G.
Undeveloped possibilities in the new Asiatic rhododendrons. Flor. Exch. 76(7): 27, 38. F.14, 1931.

Plant diseases and quarantines. Flor. Exch. 76(7): 37-38. F.14, 1931.
An interview with Dr. K.F. Kellerman Associate Chief, U.S. Bureau of Plant Industry, reported by F.W. Ruzicka.

Stokes, F. C.
Dr. Frederick J. Pritchard -- A tribute. Flor. Exch. 76(8):35, 37. F.21, 1931.

Tehon, L.R.
The "elm wilt" in Illinois nurseries. Flor. Exch. 76: 28, 30, 32. F.14, 1931. no.7.
Trouble generally called "elm wilt" is the result of several diseases: twig-blight (Coniothyrium sp.); cankers of twigs, branches and trunk; bark disease (Stemphyllium sp.); wilts (Fusarium & Verticillium)

For. Prod. Res. Bull. Gt. Brit.

Cartwright, K.St.G.
A decay of Sitka spruce timber caused by Trametes serialis, Fr. A cultural study of the fungus. For. Prod. Res. Bull. Gt. Brit. 4. 26 p. 6 pl. 1930.

Gard. Chron. (London)

Darnell, A. W.
The genus Primula. (concl.) Gard. Chron. III, 89: 114-115. F.7, 1913. no.2302.

Grove, A.
The diseases of lilies. Gard. Chron. III, 89: 110. illus. F.7, 1931. no.2302.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 89: 109. illus. F.7,1931. no.2302.

Spartium junceum. Gard. Chron. II, 89: 106-107. F.7, 1931. no.2302.

Stearn, W. T.
Lilium cordatum and Hosta japonica. Two Thunbergian species. Gard. Chron. III,89: 111. F.7, 1931. no.2302.

Stubbs, F. J.
The lost fragrance of musk. Gard. Chron. III, 89: 116. F.7, 1931. no.2302.

Taylor, G. M.
Lilium formosanum. Gard. Chron. III, 89: 112. F.7, 1931. no.2302.

Thomas, G. S.
Coriarias. Gard. Chron. III,89: 107-108. illus. (p.105) F.7, 1931. no.2302.

Gard. Illus. (London)

Hellings, F. W.
Bearded irises. Notes on proportion and form. Gard. Illus. 53: 74-76 illus. Ja.31, 1931. no.2708.

Gartenfl. (Berlin)
Fischer, H.
Ueber richtige und falsche pflanzennamen.
Gartenfl. 80: 42-44. F.1931.

Pohlig, M.
Ein liebhaber-alpinum in der sächsichen Schweiz. Gartenfl. 80: 54-56. illus. F. 1931.

Gartenz. (Wien)
Wagner, R.
Ueber Phygelius capensis E.May. Gartenz. (Wien) 1931: 25-26. illus. F.1931. no.2.

Hilgardia (Berkeley,Cal.)
Davis, L.D.
Some carbohydrate and nitrogen constituents of alternate-bearing sugar prunes associated with fruit bud formation. Hilgardia 5: 119-154. illus. Ja.1931. no.6.

Sinclair, J. E. & Sampson, A.W.
Establishment and succession of vegetation on different soil horizons. Hilgardia 5: 155-174. illus. Jan.1931. no.7.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)
Euler, H.v. & Nilsson, R.
Zur kenntnis der kohlenhydratredoxase.
Hoppe-Seyl. Zeitschr. Phys. Chem. 194: 260-268. F.4, 1931. no.5/6.
Experiments with Corchorus capsularis.

Indian For. Rec.
Parker, R.N.
Illustrations of Indian forest plants. II. Five species of Dipterocarpus (cont.) Indian For.Rec. v.16, pt.1. 16 p. x pl. 1930.

Intern. Bull. Plant Prot.
Dusting and steeping of cereal seeds. (cont.)
Intern. Bull. Plant Prot. 4: 191-192. D.1930.no.12.

Journ. Agr. Res.(Washington, D.C.)

Davis, W.B. & Church, G. G.
The effect of ethylene on the chemical composition and the respiration of the ripening Japanese persimmon. Journ. Agr. Res. 42: 165-182. F.1, 1931. (Rec'd F.26) no.3.

Frear, D. E.
A negative correlation observed between the nitrate nitrogen in the juice of beet leaves and the weight of the leaves. Journ. Agr. Res. 42: 53-56. Jan.1,1931 (Rec'd F.12) no.1.

Jenkins, A. E.
Lima-bean scab caused by Elsinoe. Journ. Agr.Res. 42: 13-23. 5 pl. on 3, 1 col. Ja.1, 1931 (Rec'd F.12) no.1.

Jenkins, A. E.
Scab of Canavalia caused by Elsinoe canavaliae Journ.Agr.Res. 42: 1-12. 4 pl. on 2. Ja.1,1931. (Rec'd F.12) no.1.
On C. ensiformis & C. gladiata.

Jones, L.K.
Factors influencing the effectiveness of organic mercury dusts in pea-seed treatment. Journ. Agr.Res. 42: 25-33. illus. Ja.1, 1931.(Rec'd F.12) no.1.

Martin, J.H., Harris, J.A. & Jones, I.D.
Freezing-point depression and specific conductivity of sorghum tissue fluids. Journ. Agr.Res. 42: 57-69. Jan.15,1931 (F.14) no.2.

Rathbun-Gravatt, A.
Germination loss of coniferous seeds due to parasites. Journ Agr. Res. 42: 71-92. Ja.15, 1931 (F.14) no.2.

Journ. Amer. Soc. Agron. (Geneva, N.Y.)

Naftel, J. A.
The absorption of ammonium and nitrate nitrogen by various plants at different stages of growth. Journ. Amer. Soc. Agron. 23: 142-158. illus. F.1931. no.2.

Journ. Amer. Soc. Agron. (cont.)
Rosenquist, C. E.
Hybrid vigor in wheat (Triticum vulgare).
Journ. Amer. Soc. Agron. 23: 81-105. illus.
F.1931. no.2.

Taylor, J.W. & Zehner, M.G.
Effect of depth of seeding on the occurrence of covered and loose smuts in winter barley.
Journ. Amer. Soc. Agron. 23: 132-141. illus.
F.1931. no.2.

Journ. Coll. Agr. Imp. Univ. Tokyo.
Kusano, S.
Cytology of Synchytrium fulgens Schroet.
Journ. Coll. Agr. Imp. Univ. Tokyo 10: 347-388.
illus., pl.xvii-xix. Mr.31, 1930 (Rec'd F.1931)
no.5.

Journ. Indian Chem. Soc. (Calcutta)
Narayanamurti, D. & Ramaswami Aiyar, C. C.
Vegetable proteins. Part. II. Typhoidin 9 the alcohol-soluble protein of Pennisetum typhoideum.
Journ. Indian Chem. Soc. 7: 945-952. N.1930.
(Rec'd F.1931) no.11.

Sen, N. K.
Constitution of corchorin - the active principle of jute seeds (Corchorus capsularis). Part II.
Journ. Indian Chem. Soc. 7: 905-911. N.1930 (Rec'd F.1931) no.11.

Journ. Indian Inst. Sci. (Madras)
Sastri, B. N. & Narayana, N.
The spike-disease of Dodonaea viscosa.
Journ. Indian Inst. Sci. 13A: 147-152. 1930.

Journ. Min. Agr. Gt. Brit.(London)
Long, H. C.
Weeds of grass land. III. Journ. Min. Agr.
Gt. Brit. 37: 1107-1115. 8 pl. on 4. F.1931.no.11.

Journ. Pharm.Soc. Japan.
Kaku, T. & Kondo, T.
Ueber das ätherische öl von Asarum sieboldi var. seoulensis Nakai. (I. Mitteilung). Journ. Pharm.
Soc. Japan. 51: 3-7. Ja.1931. no.1.

Journ. Soc. Trop. Agr. Japan (Taiwan)

Kudo, Y.
Materials for a flora of Formosa. II. Journ.Soc. Trop.Agr. Japan. 2: 235-238. D.1930. no.3.

Matsumoto, T. & Somazawa, K.
Immunological studies of mosaic diseases. I. Effect of formolization, trypsinization and heat-inactivation on the antigenic properties of tobacco mosaic juice. Journ. Soc. Trop. Agr. Japan 2: 223-233. D.1930. no.3.

Masamune, G.
Contribution to our knowledge of the flora of the southern part of Japan. III. Journ. Soc. Trop. Agr. Japan 2: 240-241. D.1930. no.3.

Miyake, S. & Ohno, S.
Ueber den schleim von Ficus awkeotsang Makino. Journ. Soc. Trop. Agr. Japan 2: 317-327. D.1930. no.3.
In Japanese.

Okumura, O. & Sakurai, Y.
On the changes of skin color and composition of Ponkan and Satsuma orange during the ripening. Journ. Soc. Trop. Agr. Japan. 2: 295-316. D.1930. no.3.
In Japanese with English résumé: p.315-316.

Journ. Washington Acad. Sci.

Wherry, E. T.
A new spiral-orchid from the southern states. Journ. Washington Acad. Sci. 21: 49-51. illus. F.19, 1931. no.4.
Ibidium floridanum.

Magyar Bot. Lap.(Budapest)

Augustin, B. & Szathmáry, G.
Digitalis ujhelyii, a D. lutea és D. lanata´ új mesterséges hybridje. (Ein künstlich erzeugter bastard der D. lutea und D. lanata). Magyar Bot. Lap. 29: 149-152. pl. iii. 1930.

Degen, A. v.
Ueber Symphytum uliginosum Kern. Magyar Bot. Lap. 29: 144-148. 1930.
Bemerkungen über einige orientalische pflanzenarten LXXXIX.

Magyar Bot. Lap.(cont.)

Gáyer, J.
Die meidung des wettkampfes (A verseny elkerülése). Magyar Bot. Lap. 29: 276-283. 1930.

Gáyer, J.
Nachträge und berichtigungen zur bearbeitung der gattung Aconitum in der Ascherson-Graebnerschen Synopsis. Magyar Bot. Lap. 29: 39-48. 1930.

Gyelnik, V.
Lichenologiai közlemények 20-45 (Lichenologische mitteilungen 20-45) Magyar Bot. Lap. 29: 23-35. pl. i-ii. 1930.

Gyelnik, V.
Parmelia glabra (Schaer.) Nyl. alakkőre. (Les formes du Parmelia glabra (Schaer.) Nyl.) Magyar Bot. Lap. 29: 15-18. 1930.
French résumé: p17-18.

Gyelnik, V.
Revisio Peltigerarum herbarii Achariani. Magyar Bot. Lap. 29: 49-58. 1930.
Peltidea.

Györffy, I.
Prof. Dr.b.c. R.P. Max Fleischer.(1861-1930). Magyar Bot. Lap. 29: 284-285. 1930.

Hruby, J.
Campanulastudien innerhalb der vulgares und ihrer verwandten. Magyar Bot. Lap. 29:152-276. pl. iv-vii (tab.) 1930.

Jávorka, S.
Ujabb florisztikai adatok (Neuere floristische angaben). Magyar Bot. Lap. 29: 138-144. 1930.
Luzula nivea, Allium victoralis, Gagea spathacea, Ophrys cornuta, Mirabilis nyctaginea, Salix czakói, Draba simokaiana.

Kováts, F.
Moenchia mantica (Torn.) Bartl. var. jolanthae. Magyar Bot. Lap. 29: 49. 1930.

Magyar Bot. Lap. (cont.)

Latzel, A.
Moose aus dem komitate Vas. u. einigen anderen komitaten. Magyar Bot. Lap. 29: 105-135. 1930.

Lyka, K.
Néhány újabb Thymus-alakról. (Ueber einige neuer Thymus-formen) Magyar Bot. Lap. 29: 1-3. 1930.
With German translation.

Margittai, A.
A havasi gyopár felfedezése a Szvidovecen. (Berichtet über die entdeckung des edelweisses auf d. berg Svidovec bei Körösmező (Komit, Mármaros.) Magyar Bot. Lap. 29: 18-22. 1930.

Margittai, A.
Az Elatine ambigua Wight. újabb termőhelyei. (Ueber neuere standorte d. Elatine ambigua.) Magyar Bot. Lap. 29: 14-15. 1930.

Moesz, G. v.
Neue pilze aus Lettland. Magyar Bot. Lap. 29: 35-38. illus. 1930.
Diplodina lini, Hendersonia sorbi, Pleurophoma latvica, Ramularia coriandri, Septoria smarodsii, Stagonospora ophioboli.

Szatala, A.
Beitrage zur flechtenflora von Bulgarien. II. Magyar Bot. Lap. 29: 58-104. 1930.
Verrucaria bulgaricae, Collema rhodopense, Acarospora bulgaricae, Pertusaria kasandjeffii, Alectoria degenii, n.spp.

Szepesfalvi, J.
További adatok az Alföld fosszilis flórájához. (Weitere beitrage zur fossilen flora des Alföld's (Ungarisches tiefland). Magyar Bot. Lap. 29: 4-13. 1930.
With German translation: p.6-13.

Vainio, E.
Cladoniae hungaricae a G. Timkó lectae. Magyar Bot. Lap. 29: 22-23 1930.

Missouri Bot. Gard. Bull. (St. Ooui s)

Jansen, L. P.
A white-flowering partridge pea. Missouri Bot. Gard. Bull. 19: 38-39. pl.10. F.1931. no.2.

Pring, G. H.
"The dancing girl" orchid (Oncidium stipitatum). Missouri Bot. Gard. Bull. 19: 33-34. pl.6-7. F.1931. no.2.

Pring, G. H.
Mormodes atropurpureum. Missouri Bot. Gard. Bull. 19: 37-38. pl.9. F.1931. no.2.

Pring, G. H.
The swan orchid (Cycnoches warscewiczii). Missouri Bot. Gard. Bull. 19: 35-37. pl.8. F.1931. no.2.

Mitt. Deut. Dendrol. Ges.

Allebeschädigungen durch drahleitungen und ihre abhilfe. Mitt. Deut. Dendrol. Ges. 42: 187-190. 1930.
Communications from Freiherr von Enzberg, v. Graefe, Kanngiesser, J. Hempelmann v. Bennigsen, Graf v. Münster.

Fitschen, J.
Koniferenbastarde. Mitt. Deut. Dendrol. Ges. 42: 47-55. Illus. 1930.

Franck, L.
Unter den patriarchen-zedern des Libanon. Mitt. Deut. Dendrol. Ges. 42: 71-74. pl.9-10. 1930.

Funk, G.
Notizen zur morphologie und biologie der waldbäume. 5-10. Mitt. Deut. Dendrol. Ges. 42: 329-334. pl.49-50. 1930.

Funk, G.
Ueber die variation der nachkommen zweier panaschierten ulmen. Mitt. Deut. Dendrol. Ges. 42: 325-328. pl. 47-48. 1930.

Mitt. Deut. Dendrol. Ges. (cont.)

Höfker, H.
Zur gattung Ligustrum. Mitt. Deut. Dendrol. Ges. 42: 31-35. 1930.

Jahn, E.
Bemerkenswerte gehölze im botanischen garten der Forstlichen hochschule in Hann. Münden. I. 1. x Juglans bixbyi Rehder (cinerea x sieboldiana) 2. x Corylus colurnoides (avellana x colurna) C.K. Schun. Mitt. Deut. Dendrol. Ges. 42: 42-46. pl.5-6. 1930.

Kahl, A.
Der winterforst 1928-1929 und seine auswirkungen auf baum und strauch. Mitt. Deut. Dendrol. Ges. 42: 222-245. 1930.

Kanngiesser, F.
Dendrologische toxicologie IV. Mitt. Deut. Dendrol. Ges. 42: 217-222. 1930.

Koch, F.
In den wäldern Guatemalas. Mitt. Deut. Dendrol. Ges. 42: 337-347. illus. (map), pl.51-52. 1930.
Mit bemerkungen über florenwanderungen.

Kochs, J.
Die verwendbarkeit von wild- und halbfruchten in der obstverwertung. Mitt. Deut. Dendrol. Ges. 42: 172-179. 1930.

Küster, E.
Beiträge zur kenntnis der panaschierten gehölze XXVIII-XXX. Mitt. Deut. Dendrol. Ges. 42:322-324. 1930.

Kujala, V.
Ueber die krankheiten der Abies sibirica in Finnland. Mitt. Deut. Dendrol. Ges. 42: 380-382. 1930.
Coniothecium effusum.

Laubert, R.
Die rotpustelkrankheit, Nectria cinnabarina, der bäume und ihre bekämpfung. Mitt. Deut. Dendrol. Ges. 42: 214-216. pl.29-30. 1930.

Mitt. Deut. Dendrol. Ges. (cont.)

Maly, K.
Dendrologisches aus Illyrien. Mitt. Deut. Dendrol. Ges. 42: 127-136. pl.17-18. 1930.

Markgraf, F.
Forsythia europaea und die Forsythia Asiens. Mitt. Deut. Dendrol. Ges. 42: 1-12. illus., pl.1-4. (incl.map) 1930.

Marzell, H.
Die deutschen baume in der volkskunde 7-8. Mitt. Deut. Dendrol. Ges. 42: 180-186. 1930.
7. Die kiefer, Pinus silvestris. 8. Die lärche Larix decidua.

Mengel, P. F.
Dracaena draco L., der drachenbaum. Mitt. Deut. Dendrol. Ges. 42: 351-353. pl.54. 1930.

Mildbraed, J.
Adolf Engler. Mitt. Deut. Dendrol. Ges. 42: xx-xxi. port. 1930.

Möbius, M.
Furcraea gigantea Vent., eine baumförmige monokotyle. Mitt. Deut. Dendrol. Ges. 42: 347-350. illus., pl.53. 1930.

Rehder, A.
Zur nomenklatur der Magnolia kobus DC. Mitt. Deut. Dendrol. Ges. 42: 40-41. 1930.

Schliessen, M.E. graf von
Die schraubenförmigen zellwandverdickungen im holze einiger nadelhölzer. Mitt. Deut. Dendrol. Ges. 42: 316-321. pl.43-46. 1930.

Schneider, C.
Die gattungen Diervilla und Weigela. Mitt. Deut. Dendrol. Ges. 42: 13-23. 1930.

Schwitzer, H.
Chinas bäume und sträucher bezüglich ihrer wirtschaftlichen bedeutung. Mitt. Deut. Dendrol. Ges. 42: 163-172. 1930.

Mitt. Deut. Dendrol. Ges. (cont.)

Sprenger, C.
Ueber einiger baumarten Grieschenlands II.
Mitt. Deut. Dendrol. Ges. 42: 74-84. 1930.
Die ulmen der insel Korfu. -Korfus edelkastanien. - Diospyros lotus - Eine sauer-kirsche in Korfu.

Suessenguth, K.
Tropische bäume, bambuseen und mondwechsel.
Mitt. Deut. Dendrol. Ges. 42: 97-104. 1930.

Teuscher, H.
Cotoneaster. Mitt. Deut. Dendrol. Ges. 42: 24-30. 1930.

Uphof, J.C.T.
Dendrologische notizen aus dem staate Florida V. Biologische und morphologische beobachtungen über verschiedene pflanzen-gesellschaften.
Mitt. Deut. Dendrol. Ges. 42: 105-126. illus., pl.15-16. 1930.

Vill, G.
Dendrologische studien über pappel-bastarde aus den pfälzischen Rheinauen. Mitt. Deut. Dendrol. Ges. 42: 285-297. illus. pl.37-42. 1930.

Wein, K.
Die erste einführung nordamerikanischer gehölze in Europa. Mitt. Deut. Dendrol. Ges. 42: 137-163. 1930.

Winkler, H.
Der gegenwärtige stand der Betula-systematik.
Mitt. Deut. Dendrol. Ges. 42: 36-40. 1930.

Wollenweber, H. W. & Betrem, J. G.
Mitteilungen über das ulmensterben. Mitt. Deut. Dendrol. Ges. 42: 334-336. 1930.
Ueber den gegenwartigen stand des ulmensterbens Das ulmensterben und der ulmenspintkäfer.

Mitt. Ges. Vorratssch. Berlin-Steglitz.

Houben, J.
Bericht über die besprechung der methoden zur toximetrischen bestimmung von holzkonservierungsmitteln. Mitt. Ges. Vorratssch. Berlin-Stelgitz. 6: 69-72. N.1930.no.6.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Lamken, A.
Zur hybridisation der rhododendron.
Möller's Deut. Gärtn.-Zeit. 46: 49-50.
illus. F.11, 1931. no.5.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)

Hilgendorff, G.
Ueber die verwendung von säurenebeln im pflanzenschulz. Nachrichtenbl. Deut. Pflanzenschultzd.
11: 9-10. F.1931. no.2.

Rademacher, B.
Erfahrungen über auftreten und verhütung der urbarmachungskrankheit (weisseuche) in Schleswig-Holstein. Nachrichtenbl. Deut. Pflanzenschutzd.
11: 10-13. illus. F.1931. no.2.

Natur. u. Mus. Ber. Senckenb. Naturf. Ges. (Frankfurt a.M.)

Höfer, K.
Pilobolus, der "geschoss-schleuderer".
Natur. u. Mus. Ber. Senckenb. Naturf. Ges. 60:
445-447. illus. D. 1930.no.10.

Hummel, K.
Vorposten des lebens am pik von Teneriffa.
Natur. u. Mus. Ber. Senckenb. Naturf. Ges. 60: 499-500. illus. N.1930. no.11.
Spartocytisus nubigenus, Viola cheiranthifolia.

Lorey, E.
Vegetationsstudien im hochgebirge. Natur u. Mus. Ber. Senckenb. Naturf. Ges. 60: 372-377, 425-433, 474-484. illus. Ag., S., O. 1930. no.8-10.

Tyroff, H.
"Pilzkulturen" in der stadt. Natur u. Mus. Ber. Senckenb. Naturf. Ges. 60: 445-461. illus. O.1930. no.10.

Nat. Canad. (Quebec)

Armour, O. C. d'
La théorie des chromosomes. Son origine. - Son explication. - Sa valeur - Son utilité.
Nat. Canad. 58: 39-42. F.1931. no.2.

Nat. Canad. (cont.)

Godbout, F. L.

La tavelure du pommier Venturia inaequalis (Cke.) Wint. Nat. Canad. 58: 25-31. illus. F. 1931. no.2.

Naturforsh. (Berlin)

Lehmann, S

Erinnerungen an den waid. Naturforsch. 7: 405-407. pl.82-83. F.1931. no.11.

Möbius, M.

Die gestalt des pflanzenembroyos in samen in beziehung zur systematik und lebensweise. (cont.) Naturforsch. 7: 420-430. illus. F.1931. no.11.

New Zeal. Journ. Agr.(Wellington)

Deem, J. W.

Control of weeds by sodium and calcium chlorates. New Zeal. Journ. Agr. 41: 1-9. Jl.21, 1930 (Rec'd F.1931) no 1.

Leaf-spot disease of the tobacco-plant. New Zeal. Journ. Agr. 41: 52. Jl.21, 1930 (Rec'd F.1931) no.1.

Macrosporium tabacinum.

Northwest Fruit Grower. (Wenatchee)

Fisher, D.F., Harley, C. P. & Brooks, C.

The influence of temperature on the development of watercore. Northwest Fruit Grow. 3: 8, 11. Ja.1931. no.1.

Palmer, R. C.

Recent progress in the control of Jonathan breakdown. Northwest Fruit Grow. 3: 4-5. illus. Ja.1931. no.1.

Ochrana Rostlin (Prague)

Baudys, E.

Fytopathologické poznámky. VI. Ochrana Rostlin 10: 98-119. illus. D.1930. no.4/5.

In Czechoslovakian with German summary: p.117-119.

Blattný, C.

Hád'átko Heterodera radicicola na Juniperus a Chamaecyparis. Ochrana Rostlin 10: 141-143. illus. D.1930. no.4/5.

In Czechoslovakian.

Ochrana Rostlin. (cont.)

Blattný, C.
Poznámky o virových a příbuzných chorobách rostlin. (Notizen über virus- und verwandte krankheiten der pflanzen). Ochrana Rostlin 10: 130-138. illus. D.1930. no.4/5.
In Czechoslovakian with German summary: p.136-138.

Blattný, C.
Příspěvek k seznání fusariosy na cibuli (Allium cepa). Ochrana Rostlin 10: 149-153. illus. D.1930. no.6.
In Czechoslovakian.

Kříž, K.
Laboratorní zkoušky bramborovych odrůd na vzdornost vůči rakovině. Ochrana Rostlin. 10: 165-169. D.1930. no.6.
In Czechoslovakian.
Wart disease of potato.

Neuwirth, F.
Malo známá choroba řepy (Microsphaera betae Vaňha). Ochrana Rostlin. 10: 119-127. illus. D. 1930. no.4/5.
Czechoslovakian with German summary.

Říha, J.
Vliv letního sucha na zdravotni stav a vývoj bramborů v.r. 1930. Ochrana Rostlin 10: 127-129. D.1930. no.4/5.
In Czechoslovakian.
Effect of summer drought on development of potato.

Smolák, J.
Názvoslovíchorob ovocných kultur. II. Ochrana Rostlin 10: 163-165. D. 1930. no.6.
In Czechoslovakian.
Terminology of diseases in fruit culture.

Ohio Journ. Sci. (Columbus)

Henderson, N. F.
Ohio mosses, Hypnales. Ohio Journ. Sci. 31: 44-75. Ja.1931. no.1.

Ohio Journ. Sci. (cont.)

Schaffner, J. H.
Long-continued determinative orthogenetic series. Studies in determinate evolution IV. Ohio Journ. Sci. 31: 1-16. Ja.1931. no.1.

Waller, A. E.
The native iris of Ohio and bordering territory. Ohio Journ. Sci. 31: 29-42. pl.i. Ja.1931. no.1.

Parfums France (Grasse)

Bruno, F.
Expériences sur le Cymbopogon nardus Rendle et sur le Cymbopogon martini Stapf, var. sofia. Parfums France 9: 8-14. illus. Ja. 1931. no.95.

Peterm. Mitt. (Gotha)

Petersen, G.
Die salzgebirge in Peru und die trockenwüchsige flora der tropischen regenwaldgebiete. Peterm. Mitt. 77: 10-12. Ja.31, 1931, no.1/2.

Pharm. Zentralh. (Dresden)

Richter, J.
Die schwerkraftsinnesorgane der pflanze. Pharm. Zentralh. 72: 65-68. Ja.29,1931.

Rosenthaler, L.
Pflanzenmikrochemie. Pharm. Zentralhl. 72: 81-85. F.5, 1931. no.6.

Philipp. Journ. Agr.

Paulino, P. L.
Preliminary study on peanut varieties at the Lamao experiment station, Lamao, Bataan. Philipp. Journ. Agr. 1: 275-286. vi pl. 1930. no.3.

Torres, J. P.
Progress report on rice hybridization at Alabang rice experiment station. Philipp. Journ. Agr. 1: 287-292. 1930. no.3.

Phytopath.

Goldsworthy, M. C. & Smith, R.E.
Studies on a rust of clingstone peaches in California. Phytopath. 21: 133-168. illus. F.1931. no.2.

Henderson, R. C.
Transmission of tobacco ring spot by seed of petunia. Phytopath. 21: 225-229. illus. F. 1931. no.2.

Hockenyos, G. L.
Solubility of bordeaux. Phytopath. 21: 231-234. F.1931. no.2.

Hoggan, I. A.
Further studies on aphid transmission of plant viruses. Phytopath. 21: 199-212. illus. F. 1931. no.2.

Horne, W. T. & Parker, E. R.
The avocado diseases called sun blotch. Phytopath. 21: 235-238. illus. F.1931. no.2.

Johnston, C. O.
Another host for Ustilago striaeformis (Westd.) Niessl. Phytopath. 21: 241. F.1931. no.2.

Marloth, R. H.
The influence of hydrogen-ion concentration and of sodium bicarbonate and related substances on Penicillium italicum and P. digitatum. Phytopath. 21: 169-198. F.1931. no.2.

Melchers, L. E.
Downy mildew of sorghum and maize in Egypt. Phytopath. 21: 239-240. F.1931. no.2.

Smith, C. O.
Pathogenicity of Bacillus amylovorus on species of Juglans. Phytopath. 21: 219-223. illus. F. 1931. no.2.

Weber, G. F.
Lightning injury of potatoes. Phytopath. 21: 213-218. illus. f.1931. no.2.

Planta Arch. Wiss. Bot. (Berlin)

Heitz, E.
Die ursache der gesetzmässigen zahl, lage form und grösse pflanzlicher nukleolen. Planta Arch. Wiss. Bot. 12: 775-844. illus., pl. viii-ix. F.2, 1931. no.4.

Kattermann, G.
Ueber die bildung polyvalenter chromosomenverbände bei einigen gramineen. Planta Arch. Wiss. Bot. 12: 732-774. illus. F.2. 1931. no.4.

Keyssner, E.
Der einfluss der wasserstoffionenkonzentration in der nährlösung auf die reaktion in der pflanze. Planta Arch. Will. Bot. 12: 576-587. F.2, 1931. no.4.

Matsubara, M.
Die verwendung der Beijerinckschen indigweissmethode zu quantitativen assimilationsversuchen. Planta Arch. Wiss. Bot. 12: 670-685. illus. F.2, 1931. no.~~2.~~ 4

Möthes, K.
Zur kenntnis der N-stoffwechsels höherer pflanzen 3. Beitrag (Unter besonderer berücksichtigung des blattalters und des wasserhaushaltes. Planta Arch. Wiss. Bot. 12: 686-731. F.1931. no.4.

Schweizer, G.
Zur entwicklungsgeschichte von Ascobolus strobolinus nov.spec. Planta Arch. Wiss. Bot. 12: 588-602. illus. F.2, 1931, no.~~2.~~ 4

Ribbert, A.
Beiträge zur frage nach der wirkung der ammoniumsalze in abhängigkeit von der wasserstoffionenkonzentration. Planta Arch. Will. Bot. 12: 603-634. F.2, 1931. no.~~2.~~ 4

Warner, T.
Ueber den einfluss von salzen auf die geotropische reaktion. Planta Arch. Wiss. Bot. 12: 635-669. F.2, 1931. no.~~2.~~ 4

Prakt. Blätt. Pflanzenb. u. Pflanzensch. (Freising)
Reiling, H.
Pflanzwert und anerkennung der kartoffel. Prakt. Blätt. Pflanzenb. u. Pflanzensch. 30: 253-257. F.1931. no.2.

Proc. Amer. Plant Prop. Assoc.
Chadwick, L. C.
Influence of chemicals, media and position of the basal cut on the rooting evergreen and deciduous softwood cuttings. Proc. Amer. Plant Prop. Assoc. 1930: 21-36. illus.
See also p.11-20 (Stenographic report with discussion)

Proc. Akad. Wetensch. Amsterdam.
Li, Tsi-tung
The appearance of the new physiological tip of the decapitated coleoptiles of Avena sativa. Proc. Akad. Wetensch. Amsterdam. 33: 1201-1205. 1930. no.10.

Proc. Biol. Soc. Washington.
Morton, C. V.
A new Oreobroma from the Trinity Mountains of California. Proc. Biol.Soc. Washington 44: 9-10. F.21, 1931.

St.John, H.
New and noteworthy northwestern plants. IV. Proc. Biol. Soc. Washington 44: 29-36. F.21, 1931.
Allium equicaeleste, Pentstemon pickettii, n. spp., Juncus drummondii var. longifructus n.var. & forma davisonii n.f., Arnica amplexicaulis var. piperi n.var.

Proc. Canad. Phytop. Soc. (Ottawa)
Conners, I. L.
Common names of plant diseases occurring in Canada. Proc. Canad. Phytop. Soc. 1929: 14-15. 1930.

Godbout, F. L.
Some studies of seed treatment. Proc. Canad. Phytopath. Soc. 1929: 47-54, incl. pl. iii-iv. 1930.

MacRae, N. A.
Preliminary report on studies of loose smut of barley. Proc. Canad. Phytopath. Soc. 1929: 44-47. illus. 1930.

Proc. Canad. Phytop. Soc. (cont.)

Montserin, B. G.
A Fusarium disease of the cucumber fruit. Proc. Canad. Phytop. Soc. 1929: 29-31. pl.ii. 1930.
Fusarium sp. in Ventricosum section.

Mounce, I.
Notes on sexuality in Fomes pinicola (Sw.) Cooke, Fomes roseus (Fr.) Cooke, Polyporus tuckahoe (Güssow) Sacc. et Trott., P. resinosus (Schrad.) Fr., P. anceps Peck, Lenzites saepiaria Fr., Trametes protracta Fr., and T. suaveolens (L.)Fr. Proc. Canad. Phytop. Soc. 1929: 27-28. 1930.

Newton, W., Johnston, F. B. & Yarwood, C.
Factors influencing the character of Bordeaux mixture. Proc. Canad. Phytop. Soc. 1929: 21-26. pl. i. 1930.

Simmonds, P. M. & Sallans, B. J.
Root amputations in the study of root-rots of cereals. Proc. Canad. Phytop. Soc. 1929: 33-43. illus. 1930.

Walker, A. R.
Strawberry root-rot. Proc. Canad. Phytop. Soc. 1929: 16-19. 1930.
Ramularia and Fusarium.

Proc. Indian Sci. Congr.

Parija, P. K.
Some aspects of respiration in higher plants. Proc. Indian Sci. Congr. 17(1930): 265-276. 1930.

Progr. Agr. & Vitic. (Montpellier)

La Reille, C. de
La résistance des hybrides au mildiou et la qualité de leurs vins. Progr. Agr. & Vitic. 95: 133-135. F.8,1931. no.6.

Ravaz, L.
L'enquete sur le mildiou. Conclusions. Progr. Agr. & Vitic. 95: 149-155. 1 col.pl. F.15,1931 no.7.

Queensl. Agr. Journ. (Brisbane)
New fruit tomato. Queensl. Agr. Journ. 35: 58. pl.33. Ja.1, 1931. no.1.
Cross between ponderosa and sunrise varieties.

Relaz. Staz. Agr. Sper. Bari.
Bari. Stazione agraria sperimentale.
Malattie delle piante. In its Relazione su l'attività... nel 1929-31. 1930.

Rep. Dept. Agr. Centr. Prov. & Berar.
Dastur, J. F.
Annual report of the mycological section for the year ending 31st March 1929. Rep. Dept. Agr. Centr. Prov. & Berar. 1928/29: 40-45. 1930.

Rev. Gén. Bot. (Paris)
Bower, F. O.
Origine des végétaux vasculaires peuplant la surface des continents. Rev. Gén. Bot. 43: 1-29. Ja. 1931. no.505.
French translation of English original by P. Bertrand.

Ling-Young, M.
Etude biologique des phénoménes de la sexualité chez les mucorinées(fin.) Rev. Gén. Bot. 43: 30-43. Ja.1931. no.505.

Rev. Gén. Hort. & Cult. Fruit. (Paris)
Rivoire, P.
La dégénerescence des fraisiers. Rev. Gén. Hort. & Cult. Fruit. 9: 1485-1487. Ja.1931. no.92.

Rev. Vitic. (Paris)
Rozier, A.
Le black-rot (cont.) Rev. Vitic. 74: 37-40, 53-56. Ja.15,22, 1931. no.1907, 1908.

Viala, P. & Marsais, P.
Mycolithes. (cont.) Rev. Vitic. 74: 41-44, 58-60. illus. Ja.15, 22, 1931. no.1907, 1908.

Rhodesia Agr. Journ. (Salisbury)
Timson, S. D.
Withc weed. Rhodesia Agr. Journ 23: 49-52. 2 pl. Ja. 1931. no.1.
Striga lutea.

Riv. Patol. Veg. (Paris)
Pasinetti, L.
Contributo allo studio delle sostanze anticrittogamiche (Esperienze col fideol.) II. Riv. Patol. Veg. 21: 1-10. Ja./F.1931. no.1/2.

Science. (Lancaster, Pa.)
Ferguson, M. C.
A botanical problem. Science. 73: 193-197. F.20, 1931.
Address of the retiring president, Botanical society of America, Cleveland, Dec.31, 1930.

Laboratory grown ergot. Science. v.73, no. 1885. suppl. p. x. F.13, 1931. no.1885.
Experiments pointing to the possibility of artificial production of ergot, carried out by Miss Adelia McCrea, Univ. of Michigan.

Roldan, E. F.
Bacterial stem-rot disease of hybrid seedling canes. Science. 73: 186. F.13, 1931. no.1885.
Bacillus sp.

Stevens, F. L.
Why pathogene rather than pathogen? Science. 73: 210-211. F.20, 1931. no.1886.

Wentworth, C. K.
Twist in the grain of coniferous trees. Science 73: 192. illus. F.13, 1931. no.1885.

Scient. Month. (Lancaster, Pa.)
Small, J. K.
Palms of the continental United States. Scient. Month. 32: 240-255. illus. Mr.1931. no.3.

Soil Sci. (Baltimore)
Jensen, H. L.
The fungus flora of the soil. Soil Sci. 31: 123-158. F.1931. no.2.

Succulenta (Leeuwarden)
Houten, J. M. van den
Aloë's. III. Succulenta 12: 251-256. D. 1930. no.12.

Succulenta (cont.)

Karsten, M.

Succulenten onder zuidelijken hemel. I. Hortus mortolensis III. Succulenta 12: 241-243. D. 1930. no.12.

K. Svenska Vetensk. Akad. Handl. (Stockholm)

Dahlstedt, H.

De svenska arterna av slaktet Taraxacum VIII. Spectabilia. K. Svenska Vetensk. Akad. Handl. III, V.9, no.2. 99 p. illus., 5 pl., 6 maps. 1930. no.2.

Hultén, E.

Flora of Kamtchatka and the adjacent islands. IV. Dicotyledoneae, Pyrolaceae - Compositae. K. Svenska Vetensk. Akad. Handl. v.8, no. 2. 358 p. illus., 6 pl. 1930.

Tijdschr. Plantenz. (Amsterdam)

Justesen, S. H.

Invloed van de bemesting op de kurkvorming van de aardappelknol. (Influence of manuring upon the formation of woundcork in the potato tuber) Tijdschr. Plantenz. 37: 1-14. illus., pl. i-ii. Ja. 1931. no.1.

English summary: p.13-14.

Torreya.

Cockerell, T. D. A.

Some matters of nomenclature. Torreya. 31: 13-14. Ja./F. 1931. no.1.

Harper, R. M.

Persistence of exotic plants under forest conditions. Torreya. 31: 1-7. Ja/F. 1931. no.1.

Kelley, A. P.

Occurrence of Pinus pungens Lamb. on the Atlantic coastal plain. Torreya. 31: 8. Ja./F.1931. no.1.

Muenscher, W. C.

Chamaecyparis thyoides in Orange County, New York. Torreya. 31: 9. Ja./F. 1931. no.1.

Torreya. (cont.)
Torrey, R. T.
Fantastic frost crystals on dried stems of dittany. Torreya. 31: 10-12. Ja./F. 1931. no.1.

Trans. & Proc. New Zeal. Inst. (Wellington, N.Z.)
Penseler, W.H.A.
Fossil leaves from the Waikato district. With a description of the coal mine series. Trans. & Proc. New Zeal. Inst. 61: 452-477. pl.69-73. N.29, 1930. no.3/4.

Trop. Agr. (Ceylon) (Peradeniya)
Park, M.
Some diseases of plantains in Ceylon. Trop. Agr. (Ceylon) 75: 347-352. D.1930. no.6.
Bunchy top, anthracnose, bacterial, wilt.

Die Umschau. (Frankfurt)
Koenig, P.
Neues verfahren zur herstellung von pflanzenpräparaten. Die Umschau. 35: 111-113. illus. F.7, 1931. no.6.

U.S. Dept. Agr. Month. Weather Rev.
Hubert, E. E.
Forest-tree diseases caused by meteorological conditions. U.S. Dept. Agr. Month. Weather Rev. 58: 455-459. N.1930. no.11.

U.S. Dept. Agr. Off. Rec.
Studies smut control in spring wheat belt. U.S. Dept. Agr. Off. Rec. 10: 61-62. F.19, 1931. no.8.

Univ. Calif. Publ. Bot. (Berkeley)
Belling, J.
Chromomeres of lilaceous plants. Univ. Calif. Publ. Bot. 16: 153-170. illus. 1931. no.5.

Copeland, E. B.
Miscellaneous oriental pteridophytes. Univ. Calif. Publ. Bot. 12: 384-407. pl.49-54. 1931. no.15.

Univ. Calif. Publ. Bot. (cont.)

Copeland, E. B.
Rarotonga ferns, collected by Harold E. and Susan Thew Parks. Univ. Calif. Publ. Bot. 12: 375-381. 1931. no.14.

West. Homes & Gard.

Rowntree, L.
Ten native California bulbs for the rock gardens. Part I- West. Homes & Gard. 25(2): 6, 10. illus. F.1931.

Exper. Stat. Publ.

Cornell agricultural experiment station.
Plant pathology. Its Ann. Rep. 43(2): 59-81. 1930.

Koehler, B. & Holbert, J. R.
Control of corn diseases in Illinois. Illinois Agr. Exp. Stat. Circ. 364. 27 p. illus., 1 col. pl. Ja. 1931.

New Jersey agricultural experiment station - Dept. of plant pathology.
Rose spraying experiments - 1930. Nursery Dis. Notes N.J. Agr. Exp. Stat. v.3, no.8. 4 p. F.1931.
Mimeographed.

Slate, G. L.
Filberts. New York Agr. Exp. Stat. Bull. 588. 32 p. illus. D.1930.

Traub, H. P. & Friend, W. H.
Citrus production in the Lower Rio Grande Valley of Texas. Texas Agr. Exp. Stat. Bull. 419. 60 p. illus. D.1930.

State Publications.

Tilford, P. E.
Gladiolus and dahlia diseases. Plant Dis. & Insect Notes Agr. Ext. Serv. Ohio Coll. Agr. v.2, no.1. [4] p. illus. Ja.1931.

New Books.

Atanasoff, D. & Petroff, D.
Spis'ka na konstatiranitie v Bulgariia prichiniteli na bolesti po rasteniiata (List of plant diseases in Bulgaria) Sofia, Gevernment printing office, 1930.
Bulgarian.
Host index: p.57-88.

Bonker, F. & Thornber, J. J.
The sage of the desert and other cacti. Boston, Stratford Co., 1930.

Gadow, H. F.
Jorullo. The history of the volcano of Jorullo and the reclamation of the devasted district by animals and plants. Cambridge, University press, 1930.

Morgan, A. H.
Field book of ponds and streams. N.Y., Putnams, 1930
Simpler plants and animals: p.46-57; Higher plants: p.58-103.

Soveschanie po selektsii l'na i konoplo (Conference of flax and hemp breeding) 1st, Moscow, 1928.
Metodika selektsii l'na i konopli (Methods of flax and hemp breeding)... ed. by Prof. V.E. Pisarev. Leningrad, 1929.
Articles by N.A. d'iakonov, K.G. Renard, N.D. Matveev, V.N. Khokhlov, S. Shimanovich, O.P. Kurdiumov & V.E. Pisarev on flax breeding; A. A. Jaczewski on flax diseases; D.I. Vvedenski on hemp breeding,&c.
Russian with general English summary by S.Shimanovich.

Thompson, H. C.
Vegetable crops. 2d. ed. N.Y., MacGraw-Hill 1931.

Reprints from journals not yet rec'd or not available.

Weld, L. H.
Botanic gardens. Separate from Christian Student 31: 139-148. illus. N.1930.

Translations filed in Library of Bur. of Plant Industry.

Muller, P. E.

Sur deux formes de mycorhizes chez le pin de montagne. (Upon two forms of mycorhiza on the mountain pine). Rev. Mycol. 27: 36-37. Ja. 1905.

Transl. from a review; original (also in French) in Overs. K. Dansk. Vidensk. Selsk. Forh. 1902: 249-256.

Posthumus, O.

Beschrijving der soorten van het suikerriet, 15 bijdrage. De belangrijkste Royaltysoorten. (Description of varieties of sugar cane. The most important Royalty varieties). Arch. Suikerind. Nederl. Indië. v.3(Meded. 1928, no.19) p.949-975.

Omitted at beginning of list

Acta Univ. Lund (Lunds Univ. Arsskr.)

Kylin, H.

Ueber die entwicklungsgeschichte der florideen. Acta Univ. Lund (Lunds Univ. Arsskr.) n.f., avd.2, v.26, nr.6. 103 p. illus. 1930.

Agr. Gaz. N.S.W. (Sydeny)

Anderson, R.H.

Farm forestry V. The native and introduced trees of New South Wales (cont.) Agr. Gaz. N.S.W. 42:26-34. illus. Ja.1. 1931. no.1.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no. 5. Mar.2-14, 1931.

Agr. Notes Dept. Agr. Trinidad & Tobago.
Stell, F.
Mosiac disease of sugar cane. Agr. Notes Dept. Agr. Trinidad & Tobago 1:41. Je.1930. (Rec'd R.1931) no.6.

Stell, F.
Witch broom disease of cacao. Agr. Notes Dept. Agr. Trinidad & Tobago 2: 9. Ja.1931. no.1.

Stell, F.
Wither-tip disease of limes. Agr. Notes Dept. Agr. Trinidad & Tobago 1: 79. S.1930 (Rec'd F.1931) no.9.

Agr. Res. Roy. Agr. Soc. (London)
Engledow, F. L.
Crops and plant breeding. Agr. Res. Roy. Agr. Soc. 1929: 1-37. 1930.
Tar oil winter washes for fruit trees - Weather and crops - Sugar beet - The rust and smut diseases of cereals.

Amer. Forests (Washington)
Borah, A.
Old trees of Washington (cont.) Amer. Forests 37: 157-160. illus. Mr.1931. no.3.

Ann. Agron. (Paris)
Arnaud, G. & Gaudineau, M.
Le traitement de la carie du blé. -- II. Ann. Agron. (Paris) n.s. 1: 61-81. illus. Ja./F. 1931. no.1.

Amer. Midl. Nat. (Notre Dame, Ind.)
Bush, B. F.
Some Lacinaria species. Amer. Midl. Nat. 12: 312-318. Mr.1931. no.8.
Lacinaria densispicta, L. arenicola, L. leptostachya, L. angustifolia, L. ruthii, L. brachyphylla, n.ssp.

Farwell, O. A.
Fern notes II. Ferns in the herbarium of Parke Davis & Co. Amer. Midl. Nat. 12: 233-311. Mr. 1931. no.8.

Amer. Nat. (Lancaster, Pa.)

Anderson, E.
Internal factors affecting discontinuity between species. Amer. Nat. 65: 144-148. Mr./Ap. 1931. no.697

Brittingham, W. H.
Oenothera lamarckiana mut. acutifolia, a new mutant type produced by a gene outside the first linkage group. Amer. Nat. 65: 121-133. illus. Mr./Ap. 1931. no.697.

Collins, J. L., Hollingshead, L. & Avery, P.
The Crepis setosa chromosomes present in Crepis artificialis; a correction of Tischler's statement concerning autosyndesis among setosa chromosomes. Amer. Nat. 65: 191-192. Mr./Ap. 1931. no.697.

Gates, R. R.
The cytological basis of mutations. Amer. Nat. 65: 97-120. Mr./Ap. 1931. no.697.

Amer. Potato Journ.

Martin, W. H.
Soil reaction and the potato crop. Amer. Potato Journ. 8: 59-64. Mr.1931. no.3.
On potato scab.

Anal. Inst. Cerc. Agron. României (Bucurest)

Billeau, A.
Un caz de escă (Stereum necator) tulpinile de vită tânără de doi ani (Un cas d'esca (Stereum necator) su de jeunes souches de vigne de deux ans.) Anal. Inst. Cerc. Agron. României 1: 278-281. illus. 1930.
French summary: p.280-281.

Savulescu, T. & Radulescu, I.
O nouă boală bacteriana pe frunzele de tutun in România. (Une nouvelle maladie bactérienne des feuilles du tabac en Roumanie). Anal. Inst. Cerc. Agron. României 1: 70-170. illus., 1 col. pl. 1930.
French summary: p.129-170.
Bacterium melleum.

Anal. Inst. Cerc. Agron.României (cont.)
Savulescu, T.
Starea fitosanitara in România in anul 1928-1929 (L'état phytosanitaire en Roumanie au cours de l'année 1928-1929). Anal. Inst. Cerc. Agron. României 1: 214-266. illus. Jl.1930.
French summary: p.243-266.

Ann. Gemblous (Brussels)
Verplancke, Germain
Expériences sur la transmission des maladies de dégénérescence de la pomme de terre. Ann. Gembloux 37: 65-69. F.1931. no.2.

Ann. Bot. (London)
Bancroft, H.
Note on some plant remains from an old causeway in Essex. Ann. Bot. 45: 207-210. illus. Ja. 1931. no.177.

Bowen, E. J.
Water conduction in Polytrichum commune. Ann. Bot. 45: 175-200. illus., pl. vii. Ja.1931. no.177.

Dowding, E. S.
The sexuality of the normal, giant and dwarf spores of Pleurage anserina (Ces.) Kuntze. Ann. Bot. 45: 1-14. illus., pl. i. Ja.1931. no.177.

Gregor, M. J. F.
A comparative study of growth-forms within the species Dermatea livida (B. et Br.) Phillips. Ann. Bot. 45: 73-90. illus., pl.v. Ja.1931. no.177.

Halket, A. C.
The flowers of Silene saxifraga L.; an inquiry into the cause of their day closure and the mechanism concerned in effecting their periodic movements. Ann. Bot. 45: 15-37. illus. Ja.1931. no.177.

Hemingway, W.
Researches on coal-measure plants. Sphenophylls from the Yorkshire and Derbyshire coalfield. Ann. Bot. 45: 39-47. illus. pl.ii-iii. Ja.1931. no.177.
Sphenophyllum kidstoni, S. wingfieldense n.spp.

Ann. Bot. (cont.)

Johansen, D. A.
Studies on the morphology of the Onagraceae III. Taraxia ovata (Nutt.) Small. Ann. Bot. 45: 111-124. illus., pl.vi. Ja.1931. no.177.

Mason, T. G. & Maskell, E. J.
Further studies on transport in the cotton. I. Preliminary observations on the transport of phosphorus, potassium and calcium. Ann. Bot. 45: 125-173. Ja.1931. no.177.

Parkin, J.
The structure of the starch layer in the glossy petal of Ranunculus. Ann. Bot. 45: 201-205. illus. Ja. 1931. no .177.

Saunders, E. R.
On carpel polymorphism IV. Ann. Bot. 45: 91-110. illus. Ja.1931. no.177.

Youngman, W.
Studies in the cytology of the Hibisceae. II. The behaviour of the nucleus during cell-division in the root-tip of Thespesia populnea and comparative observations of the phenomena in some related plants. Ann. Bot. 45: 49-72. illus., pl.iv. Ja.1931. no.177.

Ann. Rep. Bur. Sugar Exp. Stat. Queensl.

Bell, A. F.
Work of the division of pathology. Ann. Rep. Bur. Sugar Exp. Stat. Queensl. 30(1929/30): 36-41. 1930.

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e. Nat. (Rome)

Petri, L.
Alterazione del fusto dei papiri prodotta da protozoi. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis. Mat. e Nat. 9:701-702. 1929. no.9.

Bergens Mus. Årb.

Faegri, K.
Om de i norden iakttatte Amsinckia-arter. En systematisk orientering. Bergens Mus. Årb. 1929 Naturvid. rekke no.8. 35 p. illus. 1930. no.2.

Bergens Mus. Årb. (cont.)

Nordhagen, R. & Omang, S. O. F.
Et bidrag til Faerøenes flora. Planter samlet på Faerøene av Olaf Hanssen i 1926. Bergens Mus. Årb. 1929 Naturvid. rekke no.7. 8 p. 1930. no.2.

Biol. Medd. K. Danske Vidensk. (København)

Hagerup, O.
Études des types biologiques de Raunkiaer dans la flore autour de Tombouctou. Biol. Medd. K. Danske Vidensk. v.9, no.4. 116 p. illus., pl. i-v. 1930. no.4.

Bol. Agr. Min. Industr. Colombia

Pérez Arbelàez, E.
La expedición botanical Colombiana. III. Bol. Agr. Min. Industr. Colombia 3: 602-607. Jl./Ag. 1930. no. 10/11.

Pérez Arbelàez, E.
Lecciones sobre el herbario. Bol. Agr. Min. Industr. Colombia Supl. 3: 1-41. pl. i-xii. N. 1930. no.1.

Bot. Közlem. (Budapest)

Cholnoky, B.
A Pennatae esoport kovamoszatainak ivaros szaporodása. (Die geschlechtliche vermehrung der kieselalgen aud der gruppe Pennatae.) Bot. Közlem. 27: 81-103. 1930. no.5/6.
German summary.

Degen, A.
Onosma austriaca Beck Budapest flórájában. (Onosma austriaca Beck in der flora von Budapest). Bot. Közlem 27: 102-104. 1930. no.5/6.
German summary.

Pillich, F. jr.
A Satureja pillichiana J. Wagn. jellemzése. (Die Satureja pillichiana J. Wagn.) Bot. Közlem. 27: 105-111. illus. 1930. no.5/6.
German summary.

Bot. Mag. Tokyo.

Honda, M.

Nuntia ad floram Japoniae. VIII. Bot. Mag. Tokyo 44: 667-671. D.1930. no.528.

Shimotomai, N.

Autosyndese der chromosomes bei einem artbastard von Chrysanthemum. Bot. Mag. Tokyo 44: 672-677. illus. D.1930. no.528.

Japanese with German résumé.

Yasuda, S.

Physiological researches on the fertility in Petunia violacea VIII. On the self-fertilizing ability of flowers in buds of the self-incompatible plants. Bot. Mag. Tokyo. 44: 678-687. D.1930. no.528.

Japanese with English résumé.

Yoshinaga, T. & Hiratsuka, N.

A list of Uredinales collected in the province of Tosa. Bot. Mag. Tokyo. 44: 627-666. D.1930. no.528.

Bull. Agence Gén. Colon. France (Paris)

Heim de Balsac, F. & Heim de Balsac, H.

Le bontaka (Pachypodium rutenbergianum) de Madagascar, sa valeur économique. Bull. Agence Gén. Colon. France 24: 178-186. 3 pl. Ja.1931. no.263.

Meniaud, J.

Les bois coloniaux. Bull. Agence. Gén. Colon. France 23: 901-963, 1037-1175. plates (incl. maps) N., D.1930; 24: 3-172. plates. Ja.1931. no.261, 262,263.

Bull. Écon. Indochine Sect. B.

Brillet, F.

Le pe-mou (Fokienia hodginsii) Bull. Econ. Indochine Sect.B. 33: 915-924. illus. D.1, 1930.

Bull. Inst. Phys. & Chem. Res. (Tokyo)

Nakamura, N. & Ichiba, Y.

On the isolation of phytosteroline from wheat embryo. Bull. Inst. Phys. & Chem. Res. (Tokyo) 10: 194-198. illus. [1931] no.2.

In Japanese.

Bull. Soc. Bot. France (Paris)

Camus, A.
Le genre Pseudobromus Schum. Bull. Soc. Bot. France 77: 511-513. D.20, 1930. no.7/8.
P. biflorus n.sp.

Camus, A.
Pseudostreptogyne, genre nouveau de graminées. Bull. Soc. Bot. France 77: 476-479. illus. D.20, 1930. no.7/8.
P. richardii.

Chouard, P. & Prat, H.
Remarques sur l'evolution des cuvettes lacustres à propos de la pozzine et du lac de Nino. Bull. Soc. Bot. France 77: 438-441. illus. D.20,1930. no.7/8.

Culmann, P.
Contribution à la flore bryologique du bassin supérieur de l'Arve. Bull. Soc. Bot. France 77: 463-473. D.20,1930. no.7/8.

Litardière, R. & Marchioni, T.
Notes sur quelques plantes de la Corse orientale (presqu'ile cap-corsine, massif du San Pedrone, plaine de la Casinca). Bull. Soc. Bot. France. 77: 452-462. D.20,1930. no.7/8.

Maire, R.
Les guis de l'Afrique du nord. Bull. Soc. Bot. France. 77: 492-493. D.20,1930. no.7/8.

Maurin, E.
Un nouveau caractère distinctif entre le genre "Olinia" et les rhamnacées. Bull. Soc. Bot. France 77: 462. D.20,1930. no.7/8.
Anthracene derivatives not found in Olinia cymosa.

Moreau, F. & Moreau, Mme. F.
Etudes systématique, écologique et sociologique des lichens saxicoles des environs de la Station biologique de Besse (Puy-de-Dome). Bull. Soc. Bot. France 77: 479-490. D.20,1930. no.7/8.

Bull. Soc. Bot. France (cont.)

Moreau, F. & Moreau, Mme. F

Les synapses des champignons supérieurs. Bull. Soc. Bot. France 77: 513-517. illus. D.20, 1930. no.7/8.

Pellegrin, F.

Apartea Pellegrin, genre nouveau de rapatéacées du Gabon. Bull. Soc. Bot. France 77: 473-474. D.20, 1930. no.7/8.

Apartea le testüi.

Souèges, R.

Recherches sur l'embryogénie des ombellifères. Bull. Soc. Bot. France. 77: 494-511. illus. D.20, 1930. no.7/8.

Bull. Soc. Chim. ~~France~~ Biol. (Paris)

Meunier, A.

Recherches sur les variations de coloration des plantes au cours de leur desiccation. Le chromogene de l'Orobus niger L. (Lathyrus niger Bernh.), est l'arbutoside (arbutine). Bull. Soc. Chim. ~~France~~ Biol. 13: 71-83. Ja. 1931. no.1.

Mokragnatz,

Action du nickel et du cobalt sur le développement de l'Aspergillus niger. Bull. Soc. Chim. ~~France~~ Biol. 13: 61-71. Ja.1931. no.1.

Bull. Soc. Hist. Nat. Afr. Nord (Alger)

Maire, R.

Les méthodes actuelles pour l'etude systématique des basidiomycètes charnus. Bull. Soc. Hist. Nat. Afr. Nord 21: 200-206. 1930. no.9.

Butler Univ. Bot. Stud. Paper (Indianapolis)

Palmer, C. M.

Algae of Marion County, Indiana. A description of thirty-two forms. Butler Univ. Bot. Stud. Paper 2: 1-21. illus. F.1931. no.1.

Calif. Citrogr. (Los Angeles)

Fawcett, H. S.

Observations on citrus conditions in Mediterranean countries I-III. Calif. Citrog. 16: 94, 132-133, 154, 157, 208, 244. illus. Ja., F., Mr. 1931. no.3,4,5.

I. Italy, II. Spain. III. Tunisia and Algeria.

Gray, G. P.

Effect of phosphates in hastening maturity of oranges. Calif. Citrog. 16: 199. Mr.1931. no.5.

Canad. Journ. Res. (Ottawa)

Hanna, W. F.

Studies on the nature of rust resistance in wheat. V. Physiology of the host. Canadia Journ. Res. 4: 134-147. F.1931. no.2.

Compt. Rend. Acad. Sci. Paris.

Brunel, A.

Présence de l'allantoïnase dans de nombreux champignons. Compt. Rend. Acad. Sci. Paris 192: 442-444. F.16, 1931. no.7.

Dangeard, P.

La sensibilitè des laminaires aux actions extérieures et l'iodovolatilisation. Compt. Rend. Acad. Sci. Paris 192: 500-501. F.23, 1931. no.8.

Heim, R.

La spore chez les inocybes:spécificité et variations. Compt. Rend. Acad. Sci. Paris. 192: 435-437. F.16, 1931. no.7.

Jonesco, St.

Formation des pigments anthocyaniques dans les plantules étiolées de sarrasin et de blé. Compt. Rend. Acad. Sci. Paris. 192: 438-440. F.16, 1931. no.7.

Lechtova-Trnka, M.

Sur la présence d'un ascomycète dans un tubercule d'Astralagus alopecuroides L. Compt. Rend, Acad. Sci. Paris 192: 497-500. F.23, 1931. no.8.

Compt. Rend. Acad. Sci. Paris (cont.)

Mathias, E.
Sur la mort en foule des végégaux par l'eclair fulgurant. Compt. Rend. Acad. Sci. Paris. 192: 390-393. F.16, 1931. no.7.

Michel-Durand, E.
Influence de la lumière sur la migration des matériaux nutritifs au moment de l'éclosion des bourgeons. Compt. Rend. Acad. Sci. Paris 192: 440-442. F.16, 1931. no.7.
Experiments with horse chestnut.

Nicolas, G. & Aggery, Mlle.
Un nouvel exemple du rôle important des bactéries en phytopathologie. Compt. Rend. Acad. Sci. Paris 192: 502-504. F.23, 1931. no.8.
On Fatsia (Aralia) japonica, no organism given.

Saillard, E.
La fixite de la composition des végétaux, d'après Liebig, et la betterave à sucre née de sélections. Compt. Rend. Acad. Sci. Paris 192: 504-507. F.23, 1931. no.8.

Compt. Rend. Soc. Biol. Paris.

Belehradek, J. & Melichar, J.
Survie de la cellule végétale (Elodea canadensis Rich.) sous l'action simultanée de la chaleur et de la narcose. Compt. Rend. Soc. Biol. Paris 106: 397-399. F.13, 1931. no.5.

Soru, E.
Le potentiel d'oxydo-réduction du tissu sain de la plante (Pelargonium zonale) et de la tumeur cancéreuse. Compt. Rend. Soc. Biol. Paris 106: 415-416. F.13, 1931. no.5.

Country Life. (Amer.) (Garden City, N.Y.)

Barron, L. & Rockwell, F. F.
The glory of the daffodil. A veritable Pandora's box of new thrills. Country Life. (Amer.) 59(8): 35-39, 78. col. illus. Mr.1931. no.5.

Desert (Pasadena)

Johansen, D. A.
Idria columnaris. Desert (Pasadena) 2: 144-145. illus. Mr.1931. no.11.

Desert. (cont.)

Jones, M. E.
The spines of the cactus family. Desert (Pasadena) 2: 140, 142-143. port. Mr.1931. no.11.

Empire For. Journ.

Burtt Davy, J.
Botanical notes on Empire trees (cont.) Empire For. Journ. 9:267-271. 1930. no.2.

Cartwright, K.St.G. & Findlay, W.P.K.
The diagnosis of decay in timber. Empire For. Journ. 9: 190-203. pl. 1930. no.2.

Mildbraed, J.
Sample plot surveys in the Cameroons rain-forest. Transl. by H.M. Heyder. Empire For. Journ. 9: 242-266. 1930. no.2.
Transl. of his Probeflächen-aufnahmen aus dem Kameruner regenwald. Notizbl. Bot. Gard. Berlin v.10, p.951.

Rayner, M. C.
Mycorrhiza in relation to tree growth. Empire For. Journ. 9: 182-189. 1930. no.2.

Gard. Chron. (London)

Brown, N. E.
Mesembryanthemum. (cont.) (Nananthus). Gard. Chron. III, 89: 133-134. illus. F.14, 1931. no.2303.

Comber, H. F.
Podocarpus andina. Gard. Chron. III, 89: 129. illus. F.14, 1931. no.2303.

Darnell, A. W.
The genus Omphalogramma. Gard. Chron. III, 89: 134-136. illus. F.14, 1931. no.2303.

Friend, H.
Horticulture in relation to commerce. V. Dyes and dye plants. Gard. Chron. III, 89: 131-132. F.14, 1931. no.2303.

Green, D. E.
Peach scab. Gard. Chron. III, 89: 151-152. illus. F.21, 1931. no.2304.

Gard. Chron. (cont.)

Hodson, H. A.
Mistletoe and its hosts. Gard. Chron. III, 89: 153. illus. F.21, 1931. no.2304.
Mistletoe on chestnut.

Redgrove, H. S.
An interesting citrus: C. hystrix, D.C. Gard. Chron. III, 89: 149-150. illus. F.21, 1931. no.2304.

Redgrove, H. S.
Some notes on Nigellas. Gard. Chron. III, 89: 132-133. F.14, 1931. no.2303.

Small, J.
Revelations of a pocket-lens (cont.) Gard. Chron. III, 89: 146. illus. F.21, 1931. no.2304.

Ward, F.K.
The Roosevelt expedition in French Indo-china. X. Invalided at Muongsing. Gard. Chron. III, 89: 130-131. illus. F.14,1931. no.2303.

Gard. Chron. Amer.

Shaw, M. C.
The tree of mystery. In harmony with the California landscape is the unique Washington fan palm. Gard. Chron. Amer. 35: 87-88. illus. Mr.1931. no.3.
Washingtonia.

Gartenbauwiss. (Berlin)

Heermann, W.
Artkreuzungen bei Begonia. Gartenbauwiss. 4: 169-195. illus. F.7, 1931. no.3.

Zschokke, A.
Sonnenbrand-, hitztod- und austrocknungsschäden an reben. Gartenbauwiss. 4: 196-232. illus. F.7, 1931. no.3.

Genetics.

McClintock, B. & Hill, H. E.
The cytological identification of the chromosome associated with the R-G linkage group in Zea mays. Genetics 16: 175-190. illus. Mr. 1931. no.2.

Gladiolus Rev. (Goshen, Ind.)

Maple, J. B.
The romance of names. Gladiolus Rev. 8: 136-138. illus. Mr.1931. no.3.

Mitsch, G. E.
Blue glads. Gladiolus Rev. 8: 139-140,162. illus. Mr.1931. no.3.

Helvetica Chim. Acta (Basel)

Zetzsche, F. & Vicari, H.
Untersuchungen über die membran der sporen und pollen II-IV. Helvetica Chim. Acta 14: 58-62, 62-67, 67-78. 1931. no.1.
II. Lycopodium clavatum L.2, III. 2. Picea orientalis, Pinus silvestris L., Corylus avellana L.IV. 3. Fossiles eporopollenin aus dem tasmanit und der moskauer braunkohle.
G. Schärer, joint author IV.

Indian Med. Res. Mem. (Calcutta)

Khaskar, K. S. & Caius, J. F.
Indian plant remedies used in snake-bite. Indian Med. Res. Mem. 19. 96 p. Ja.1931.

Indische Cult. (Soerbaja)

Treadwell, J. C.
De wilde rubber van het Amazonegebied. Indische Cult. 16: 99-104. illus. F.1, 1931. no.3.

Journ. Amer. Chem. Soc.

Nelson, E. K. & Hasselbring, H.
Some organic acids of wheat plants. Journ. Amer. Chem. Soc. 53: 1040-1043. Mr.1931. no.3.
Aconitic, citric, malic, malonic and oxalic acid.

Journ. Arnold Arb. (Cambridge, Mass.)

Ames, O.
Rhus verniciflua and Japanese damascene Ware. Journ. Arnold Arb. 12: 1-3. pl.27. Ja.1931. no.1.

Journ. Arnold Arb. (cont.)

Copeland, E. B.
Pteridophytes collected for the Arnold Arboretum on Vanikoro, Santa Cruz Islands, by S. F. Kajewski. Journ. Arnold Arb. 12: 46-49. Ja.1931. no.1.
Oleandra angusta, Lindsaya kajewski, Lycopodium kajewski, L. vanikorense, n.spp.

Haddow, W. R.
Studies in Ganoderma. Journ. Arnold Arb. 12: 25-46. illus., pl.29-30. Ja.1931. no.1.

Rehder, A.
New species, varieties and combinations from the herbarium and the collections of the Arnold Arboretum. (cont.) Journ. Arnold Arb. 12: 59-78. illus. Ja.1931. no.1.

Roush, E. M. F.
A synopsis of Robinsonella. Journ. Arnold Arb. 12: 49-59. illus. Ja.1931. no.1.

Sax, K.
The origin and relationships of the Pomoideae. Journ. Arnold Arb. 12: 3-22. pl.28. Ja.1931. no.1.

Woodworth, R. H.
Cytomyxis. Journ. Arnold Arb. 12: 23-25. Ja.1931. no.1.
Not a natural process, probably due to injury to the cell at time of preservation.

Journ. Biol. Chem. (Baltimore)

Vickery, H. B. & Pucher, G. W.
The non-volatile organic acids of green tobacco leaves. Journ. Biol. Chem. 90: 637-653. Mr. 1931. no.3.

Journ. Bot. (London)

Dandy, J. E.
Some new names in the Monocotyledones. I- Journ. Bot. 69: 53-55. F.1931. no.818.
Protolirion sakuraii & species of Gramineae.

Enoto, Y.
The Malayan Myxomycetes. Journ. Bot. 69: 38-42. F.1931. no.818.

Journ. Bot. (cont.)

Hall, L. B.
Bromus britannicus in cultivation. Journ. Bot. 69: 57-58. F.1931. no.818.

James O'Brien, V.M.H. Journ. Bot. 69: 56. F.1931. no.818.

Lister, G.
Notes on Malayan mycetozoa. Journ. Bot. 69: 42-43. F.1931. no.818.

Novitates africanae (cont.) Journ. Bot. 69: 48-50. F.1931. no.818.

Prof. T.C.E. Fries. Journ. Bot. 69: 56. F. 1931. no.818.

Pugsley, H. W.
A further new Limonium in Britain. Journ. Bot. 69. 44-47. illus. F.1931. no.818.
L. paradoxum.

Skvortzow, B. W.
Phytoplankton from Siberia I-II. Journ. Bot. 69: 33-38. illus. F.1931. no.818.
I. From the Akmolinsk lake district, collected by P. T. Ignatow in 1899 and 1901. II. From the Altai mountains of Siberia, collected by A. N. Sedelnikov in 1914 and 1916.

Tolley-Dod, A. H.
A revision of the British roses. (cont.) Journ. Bot. v.69, suppl. p.25-32. F.1931. no.818.

Journ. Chem. Soc. London.

Cahn, R. S., Gibson, C.S., Penfold, A.R. & Simonsen, J.L.
The essential oil of Backhousia angustifolia. III. The constitutions of angustione and dehydroangustione. Journ. Chem. Soc. London, 1931: 286-294. F.1931.

Clemo, G. R., Paper, R. & Tenniswood, C.R.S.
The lupin alkaloids III. Journ. Chem. Soc. London 1931: 429-437. F.1931.

Clemo, G. R. & Ramage, G. R.
The lupin alkaloids. IV. The synthese of octahydropyridocoline. Journ. Chem. Soc. London 1931: 437-442. F.1931.

Journ. Dept. Agr. Porto Rico (Rio Piedras)

Chardon, C. E. & Toro, R. A.
Mycological explorations of Colombia. Journ. Dept. Agr. Porto Rico 15: 195-369. illus., pl. xxx-xxxv, fold map. O.1930. no.4.
With contributions on Myxomycetes, W. C. Meunscher; Phycomycetes, W.H. Weston; Pezizales, F.J. Seaver; Xylariaceae, J.H. Miller; Cercosporeae, C. Chupp; Ustilaginales, H.S. Jackson; Uredinales, F.D. Kern and H.H. Whetzel; Eu-basidiomycetes, L.O. Overholts.

Toro, R. A.
The Cercosporae of Puerto Rico. Journ. Dept. Agr. Porto Rico 15: 5-17. Ja.1931. no.1.
Cercospora lantana, C. phyllanthae, C. whetzelii, n.spp.

Journ. Dept. Agr. So. Australia (Adelaide)

Fill, R.
Eradication of yacca (Xanthorrhoea semiplana). Journ. Dept. Agr. So. Australia 34: 634-636. illus. Ja.15, 1931. no.6.

Journ. Dept. Agr. West. Austral. (Perth)

Elliot, H. G.
Agricultural seeds and their weed seed impurities. Journ. Dept. Agr. West. Austral. II, 7: 491-494, 574-577. S., D.1930. no.3,4.

Gardner, C. A.
Mexican poppy. (Argemone mexicana, Linn.) Journ. Dept. Agr. West. Austral. II, 7: 612-614. illus. D.1930. no 4.

Journ. For. (Washington, D. C.)

Fritz, E. & Bonar, L.
The brown heart of California redwood. I-II. Journ. For. 29: 368-380. illus. Mr.1931. no.3.
I.Notes on the development of the causal fungus. by E. Fritz. II. The etiology of the causal fungus. by L. Bonar.
Piria sequoiae.

Journ. Frankl. Inst.

Swann, W.F.G. & Del Rosario, C.
The effect of radioactive radiations upon Euglena. Journ. Frankl. Inst. 211: 303-317. Mr.1931. no.3.

Journ. Indian Inst. Sci. (Madras)
Karmarkar, D. V. & Patwardhan, V. N.
Amylase from wheat. Journ. Indian Inst. Sci. 13A: 159-164. diagrs. [1931] no.13.

Journ. N.Y. Bot. Gard.
Small, J. K.
The fanleaf-palm - Washingtonia filifera. Journ. N.Y. Bot. Gard. 32: 33-43. illus. F. 1931. no.374.
With biographical foot-notes by J.H. Barnhart.

Stout, A. B.
Notes on new hybrid daylilies. Journ. N.Y. Bot. Gard. 32: 25-33. illus. F.1931. no.374.

Journ. Washington Acad. Sci.
Kearney, T. H.
Plants new to Arizona. (An annotated list of species added to the recorded flora of the state or otherwise interesting). Journ. Washington Acad. Sci. 21: 63-80. Mr.4, 1931. no.5.

Kosmos (Stuttgart)
Morton, F.
Mangrovezauber. Kosmos 28: 101-103. illus. Mr.1931. no.3.

Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwwetehsch. (Amsterdam)
Luyten, I.
De invloed van temperatuur en röntgenstralen op tulp en hyacinth. Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwwetehsch. 42: 777-785. D.1930 (Rec'd Mr.1931) no.513.

Matières Grass. (Paris)
Pieraerts, J., and Vlassov, S.
Contribution à l'étude des Allanblackia oléifères. III. Préparation facile de fortes quantités d'oléodistéarine pure. Matières Grass. 23: 9086-9087. F.15, 1931. no.274.

Pieraerts, J., Andriaens, L. and Castagne, E.
Contribution à l'étude du voandzou. (cont.) Matières Grass. 23: 9088-9091. F.15, 1931. no.274.
Voandzeia subterranea.

Mem. Dept. Agr. India. Bot. Ser.
Trought, T. & Afzal, M.
Cotton growing in India in relation to climate. Mem. Dept. Agr. India Bot. Ser. 17: 117-136. D.1930. no.5.

Mezőgazd. Kutat. Budapest
Gulyás, A
A magyarországi dohánylevelek bőrsejtjeinek alakja és jelentősege a feldolgozás szempontjából. (Die form und die bedeutung der oberhaut-struktur der ungarischen tabakblätter in anbetrecht der industriellen bearbeitung). Mezőgazd. Kutat. Budapest 4: 2-11. illus. Ja.1931. no.1.
Hungarian with German summary: p.10-11.

Szücs, A
Csávázószerek hatása a csirázási erélyre. (Die wirkung verschiedener beizmittel auf die keimungsenergie). Mezőgazd. Kutat. Budapest 4: 24-28. Ja.1931. no.1.
Hungarian with German summary: p.28.

Mycologia (Lancaster, Pa.)
Bailey, F. D. & Zeller, S. M.
The occurrence of Schizophyllum commune on green apples. Mycologia. 23: 154-155. illus. Mr./Ap. 1931. no.2.

Cejp, K.
Notes on Iowa species of the genus Irpex. Mycologia 23: 130-133. illus. Mr./Ap.1931. no.2.

Ciferri, R.
Contributions to the classification of Torulopsidaceae I. An American variety of Torulopsis minuta. Mycologia 23: 140-146. illus. Mr./Ap.1931. no.2.

Dearness, J.
Volvaria speciosa. Mycologia 23: 152-153. Mr./Ap.1931. no.2.

Emmons, C. W.
Observations on Achorion gypseum. Mycologia 23: 87-95. illus., pl.9-10. Mr./Ap. 1931. no.2.

Mycologia. (cont.)

Jackson, H. S.
The rusts of South America based on the Holway collections. III. Mycologia. 23: 96-116. illus., pl. 11. Mr./Ap.1931. no.2.
Edythea gen. nov., Mainsia gen. nov.

Kelley, A. P.
The concept of mycorhiza. Mycologia. 23: 147-151. Mr./Ap.1931. no.2.

Overholts, L. O.
Diagnoses of American Porias. III. Some additional brown species, with a key to the common brown species of the United States and Canada. Mycologia. 23: 117-129. pl.12-14. Mr./Ap.1931. no.2.

Stevens, F. L.
The ascigerous stage of Colletotrichum lagenarium induced by ultra-violet radiation. Mycolgia 23: 134-139. illus. Mr./Ap.1931.
Glomerella lagenarium.

Nat. Pecan Exch. News. (Albany, Ga.)

Britton, J. C.
Do pecan trees become immune to diseases? Nat. Pecan Exch. News. 8(2): 10-11. F.1931.

Nature (London)

Scott, F. M.
Development of Golgi apparatus in water- and soil-grown roots of Vicia faba seedlings. Nature 127: 274. F.21, 1931. no.127.

New Zeal. Journ. Agr. (Wellington)

Gibbs, J. G.
Club-root in cruciferous crops. New. Zeal. Journ. Agr. 42: 1-17. illus. Ja.20, 1931. no.1.

Northwest Fruit Grower (Wenatchee)

Overholser, E. L., Overley, F. L. & Claypool, L. L.
A survey of winter injury of fruit trees during 1930 in Washington. Northwest Fruit. Grower 3(2): 10, 17. F.1931. no.2.

Nota Prév. Jard. Bot. Rio de Janeiro

Ducke, A.
Nova especie arborea de leguminosa dos arredores do Rio de Janeiro. Nota Prév. Jard. Bot. Rio de Janeiro no.1. 6 p. Ag.1930.
Luetzelburgia trialata (Vatairea trialata)

Pharm. Journ. (London)

Trelease, G.E.

Notes on some leguminous seeds. Pharm. Journ. 126 (IV,72): 211-212. illus. F.28, 1931. no.3513.

Cassia fistula, C. angustifolia, C. acutifolia, Tamarindus indica.

Philipp. Agr. (Los Baños)

Espino, R. B. & Pantaleon, F.

Influence of light upon growth and development of plants with special reference to the comparative effects of the morning and of the afternoon light. Philipp. Agr. 19: 563-579. illus. F.1931. no.9.

Ocfemia, G. O.

Notes on some economic plant diseases new in the Philippine Islands. II. Philipp. Agr. 19: 581-589. illus. F.1931. no.9.

Proc. Amer. Phil. Soc. (Philadelphia)

MacDougal, D. T.

Lengthened growth periods and continuous growth. Proc. Amer. Phil. Soc. 69: 329-345. 1930. no.6.

Trelease, W.

The geography of American peppers. Proc. Amer. Phil. Soc. 69: 309-327. 1930. no.6.

Proc. Nat. Shade Tree Conf.

Gravatt, G. F.

Some elm tree troubles. Proc. Nat. Shade Tree Conf. 6(1930): 95-96. 1930.

May, C.

The Dutch elm disease. Proc. Nat. Shade Tree Conf. 6(1930): 91-94. 1930.

Young, H. C.

Spray injuries. Proc. Nat. Shade Tree Conf. 6(1930): 83-85. 1930.

Proc. Oklahoma Acad. Sci.

Gould, C. N.

Petroleum and surface vegetation. Proc. Oklahoma Acad. Sci. 10: 110-114. 1930.

Erroneous ideas about plants indicating mineral deposits; jackoaks and oil fields near Oklahoma City, likely to be the basis for similar ideas regarding oil and indicative vegetation.

Publ. Field Mus. Nat. Hist. Bot. Ser.

Standley, P. C.
The Cyperaceae of Central America. Publ. Field Mus. Nat. Hist. 284. Bot. Ser. 8:239-292. Ja. 26, 1931. no.4.

Standley, P. C.
The Rubiaceae of Ecuador. Publ. Field Mus. Nat. Hist. 285 Bot. Ser. 7: 179-251. F.5, 1931. no.2.

Publ. Puget Sound Biol. Stat. (Seattle, Wash.)

Capt, L.
The morphology and life history of Antithamnion. Publ. Puget Sound Biol. Stat. 7: 369-378. 6 pl. D.30, 1930.

Frye, T. C.
Splitting of the leaf of Nereocystis. Publ. Puget Sound Biol. Stat. 7: 413-416. illus. D.30, 1930.

Moore, C.S. & Moore, L. B.
Some desmids of the San Juan Islands. Publ. Puget Sound Biol. Stat. 7: 289-315. 10 pl. D.30, 1930.

Shannon, E.L. & Altman, L.C.
Growth in Codium mucronatum. Publ. Puget Sound Biol. Stat. 7: 391-392. illus. D.30,1930.

Quart. Journ. Indian Tea Assoc. (Calcutta)

Tunstall, A. C.
Some notes on the treatment of blights. Quart. Journ. Indian Tea Assoc. 1930: 190-196. no.4.
Glomerella cingulata, Pestalozzia theae, Cephaleuros spp., Thyridaria tarda, Diplodia spp., Sphaerostilbe repens.

Rep. Brit. Assoc. Adv. Sci.

Hill, A. W.
Present-day problems in taxonomic and economic botany. Rep. Brit. Assoc. Adv. Sci. 98: 191-218. 1931.
Presidential address, Sect. K. Botany.

Rep. & Proc. Mich. Muck Farm. Assoc.

Muncie, J. H.
Some common onion diseases. Rep. & Proc. Mich. Muck Farm. Assoc. 12: 28-30. 1930.

Nelson, R.
Celery blight in Michigan in 1928. Rep. & Proc. Mich. Muck Farm. Assoc. 11: 44-47. 1929.

Nelson, R.
Michigan celery diseases in 1929. Rep. & Proc. Mich. Muck Farm. Assoc. 12: 30-32. 1930.

Res. Stud. State Coll. Washington (Pullman)

Clements, H. F.
The upward movement of inorganic solutes in plants. Res. Stud. State Coll. Washington 2: 91-106. illus., 1 pl. S.1930. no.3.

St. John, H.
New and noteworthy northwestern plants. V. Res. Stud. State Coll. Washington 2: 110-116. S. 1930. no.3.
Juncus effusus L., var. caeruleomontanus, Erythronium grandiflorum Pursh, var. pallidum, new var.

Rev. Agriculteurs France

Hauteserve, L.d'
Le ble au Canada. La lutte contre la rouille. Rev. Agriculteurs France 63: 52-56. F.1931. no.2.

Rev. Bot. Appl. (Paris)

Chevalier, A.
La greffe des caféiers sur les rubiacées, n'appartenant pas au genre Coffea. Rev. Bot. Appl. 11:39-40. Ja. 1931. no.113.
Refers to note in Rec. Agr. Nouv. Calédonie. by Ch. Jacques, on Coffea arabica grafted on a Gardenia.

Chevalier, A.
Une maladie du penicillaire au Sénégal. Rev. Bot. Appl. 11: 49-50. Ja.1931. no.113.
Two fungi found, Balansia claviceps & Neovossia sp. (on Pennisetum typhoideum)

Rev. Bot. Appl. (cont.)

Chevalier, A.
Une plante à fibres peu connue: l'Hibiscus sterculiifolius. Rev. Bot. Appl. 11: 36-37. Ja. 1931. no.113.

Ducke, A.
Supplément aux Notes sur le genre Hevea Aubl. Rev. Bot. Appl. 11: 27-30. Ja.1931. no.113.

Kopp, A.
Un cas de longue incubation de la mosaïque de la canne à sucre. Rev. Bot. Appl. 11: 37-39. Ja. 1931. no.113.

Perrier de la Bathie, H.
La Raphia de Madagascar. Rev. Bot. Appl. 11: 4-17. Ja. 1931. no.113.

Walker, A.
Le bananier plantain au Gabon. Variétés et usages divers. Rev. Bot. Appl. 11: 18-27. Ja. 1931. no.113.

Rev. Hort. & Agr. Afrique Nord. (Alger)

Maire, R.
Une maladie du sapin de Douglas. (Pseudotsuga taxifolia) du au Rhabdocline pseudotsugae Syd. (Ascomycetes, Phacidiaceae). Rev. Hort. & Agr. Afrique Nord. 35: 39-40. F.1931. no.2.

Rhodora (Boston)

Eaton, R. J.
Cuscuta polygonorum in New England. Rhodora 33: 80. Mr. 1931. no.387.

Farwell, O. A.
Concerning some species of Cornus of Philip Miller. Rhodora 33: 68-72. Mr.1931. no.387.

Fassett, N. C.
Notes from the herbarium of the University of Wisconsin. VI. Rhodora 33: 72-75. Mr. 1931. no. 387.

Rhodora (cont.)

Norton, A. H.
Littorella americana in Washington County, Maine. Rhodora 33: 79. Mr. 1931. no. 387.
See also note on same page by F. H. Steinmetz.

Perry, L. M.
Concerning a Californian Convolvulus. Rhodora 33: 76-77. Mr. 1931. no. 387.
Convolvulus simulans.

Steere, W. C.
Meesea triquetra. Rhodora. 33: 77-78. pl. 205. Mr. 1931. no.387.

Science (Lancaster)

Conant, J.B., Dietz, E.M. and Kamerling, S.E.
The dehydrogenation of chlorophyll and the mechanism of photosynthesis. Science 73: 268. Mr. 6, 1931. no. 1888.

Linford, M. B.
Yellow-spot disease of pineapples transmitted by Thrips tabaci Lind. Science. 73: 263. Mr. 6, 1931. no. 1888.
An infectious chlorosis carried by the insect from certain weeds, of which Emilia flammea is most important, to pineapple.

Lounsbury, J. A.
A simple microscrope eyepiece pointer. Science. 73: 266. Mr. 6, 1931. no. 1888.

Mangelsdorf, P. C. & Fraps, G. S.
A direct quantitative relationship between vitamin A in corn and the number of genes for yellow pigmentation. Science 73: 241-242. F.27, 1931. no. 1887.

Standley, P. C.
Erik L. Ekman. Science 73: 255-256. Mr.6, 1931. no. 1888.

Standley, P. C.
Ignatius Urban. Science. 73: 254-255. Mr. 6, 1931. no. 1888.

Scient. Agr. (Ottawa)

Harrington, J. B.
Purity concepts with respect to crop varieties. Scient. Agr. 11: 411-417. Mr. 1931. no.7.

Sunyatsenia (Hong Kong)

Merrill, E. & Chun, W.Y.
Contributions to our knowledge of the Kwantung flora. Sunyatsenia 1: 49-94. Je.1930. no.1.

Merrill, E. D.
On Miquel's Kwangtung species as based on Krone's collection. Sunyatsenia 1: 1-48. 20 pl. Je. 1930. no.1.

Techn. Rep. Dept. Agr. Ceylon

Lord, L.
Report of the Division of economic botany for the year 1929. In Techn. Rep. Dept. Agr. Ceylon 1929. 14 p. 1930. 2 pl.
Mostly concerned with rice.

Park, M.
Reports on diseases of plants in Ceylon during 1929. In Techn. Rep. Dept. Agr. Ceylon. 1929. 10 p. 1930.
The mosaic disease of bandakkai (Hibiscus esculentus, by W.R.C. Paul: p.9.

Tijdschr. Plantenz. (Amsterdam)

Brandenbrug, E.
Onderzoekingen over ontginningsziekte. Tijdschr. Plantenz. 37: 17-48. pl.i-iv. 1931. no.2.

Meer, J.H.H. van der
Iets over de bestrijding van Cladosporium fulvum in tomatenkassen. Tijdschr. Plantenz. 37: 49-50. 1931. no.2.

Trans. Amer. Micros. Soc. (Urbana, Ill.)

Meyer, R.R. & Walker, E.R.
The vegetative anatomy of Impatiens pallida. Trans. Amer. Micros. Soc. 50: 1-13. pl.i-iii. Ja. 1931. no.1.

Trans. Kansas Acad. Sci.

Bartholomew, E.
Additions to "The fungous flora of Kansas". Trans. Kansas Acad. Sci. 33: 82-83. [1931?]

Gates, F. C.
Botanical notes, 1928-1929. Trans. Kansas Acad. Sci. 33: 26-28. [1931?]
Of special interest: Fall blooming of Aesculus glabra; chimera on Quercus imbricaria; Rudbekia laciniata poisoning hogs.

Gates, F. C.
Ranunculus abortivus f. giganteus, a new form from eastern Kansas. Trans. Kansas Acad. Sci. 33: 28. [1931?]

Hortleder, A.
Some anatomical features of Sorbopyrus auricularis. Trans. Kansas Acad. Sci. 33: 29-30. [1931?]

Johnston, C. O.
Some new or unusual disease developments on wheat in Kansas. Trans. Kansas Acad. Sci. 33: 31-40. [1931?]
Scab. speckled leaf blotch, black chaff, crinkle joint.

Weber, C.
The flora of Clay County, Kansas. Trans. Kansas Acad. Sci. 33 : 87-106. [1931?]

Trop. Agriculture West Indies. (Trinidad)

Wardlaw, C. W.
Fusarium cubense. Trop. Agriculture West Indies 8: 54-60. Mr. 1931. no.3.

Trop. Woods, Yale Univ. Sch. For. (New Haven, Conn.)

Moldenke, H. N.
Three new species of Aegiphila from Central America. Trop. Woods, Yale Univ. Sch. For. 25: 12-17. Mr. 1, 1931.
A. monstrosa, A. panamensis, A. paniculata.

Record, S. J.
Local names of the wood plants of British Honduras - Corrections and additions. Trop. Woods, Yale Univ. Sch. For. 25: 23-24. Mr.1, 1931.

Welch, M. B.
Queensland "maple" (Flindersia spp.) Trop. Woods Yale Univ. Sch. For. 25: 18-23. Mr. 1, 1931.

Williams, L.
The forests of northeastern Peru. Trop. Woods, Yale Univ. Sch. For. 25: 5-12. Mr.1, 1931.

U. S. Dept. Agr. Farm. Bull.

Walker, J. C.
Onion diseases and their control. U. S. Dept. Agr. Farm. Bull. 1060, rev. 24 p. illus. F.1931. (Rec'd Mr.)

U. S. Dept. Agr. Off. Rec.

Clawson, A. B.
Two lupines shown to be poisonous to livestock. U. S. Dept. Agr. Off. Rec. 10: 71. F.26,1931. no.9.
L. laxiflorus, L. laxiflorus var. silvicola.

U. S. Dept. Agr. Plant Dis. Rep.

Markin, F. L.
Notes on blueberry diseases in Maine. U. S. Dept. Agr. Plant Dis. Rep. 15: 11-14. Mr. 1, 1931. no.2.

Whetzel, H. H. and others.
Some special plant disease surveys in New York state in 1929. U. S. Dept. Agr. Plant Dis. Rep. Suppl. 76: 79-96. S.1, 1930 (Rec'd Mr. 1931)
Introduction by H. H. Whetzel; A plant disease survey of muck crops by A.G. Newhall; Diseases of canning crops by J.G. Horsfall; Diseases of winter wheat by H. H. Whetzel; Important diseases of trees and shrubs by D.S. Welch; The willow blight; Lilac blights; The leaf spot of the iris; Two white smuts of the garden, by H. H. Whetzel.

Vict. Nat. (Melbourne)

The late Mr. H. B. Williamson. Vict. Nat. 47: 168. Feb. 4, 1931. no.10.

Nicholls, W. H.

A review of certain species of Caladenia. I. Vict. Nat. 47: 155-166. illus. F.4, 1931. no.10.

Williamson, H. B.

Two rare Victorian plants. Vict. Nat. 47: 166. F.4, 1931. no.10.

Spyridium serpyllaceum, Scutellaria mollis.

Western Flor.

Eckerson, P. R.

Is treated water posion to tender plants? Western Flor. 15(10); 6-9. Mr.5, 1931.

Chlorine in city water does no injury to plants, interivew with Dr. Carl Wilson of Los Angeles city water system.

Yearbk. Carnegie Inst. Washington.

Carnegie Institution of Washington.

Year book no. 29 (1929/30). 1930.

Mutation in relation to germ plasm (Datura, Delphinium) A.F. Blakeslee; p.35-41, 42-44. -- Div. of plant biology (H.A. Spoehr): p. 197-248 (Growth, D. T. MacDougal, B.J.G. Brown - Photosynthesis and carbohydrate chemistry. H.A, Spoehr & others - Experimental taxonomy. H. M. Hall & others - Desert investigations F. Shreve & others. - Ecology. F. E. Clements & others - Researches in paleobotany. G. R. Wieland - Climatological research. A. E. Douglas - Cytological investigations. J. Belling) - Genetics. Investigations in the genus Crepis. E. B. Babcock: p.372-376.

Zeitschr. Zuckering. Czechoslovak. Rep.

Stehlík, V.

Ursachen der abnormalen verzweigung der rübenwurzel. Zeitschr. Zuckerind. Czechoslovak. Rep. 55. 231-241. illus. Ja.30, 1931. no.22.

Exper. Stat. Publ.

Gates, F. C.
Principal poisonous plants in Kansas. Kansas Agr. Exp. Stat. Tech. Bull. 25. 67 p. illus. Jl. 1930. (Rec'd Mr. 1931)

Peltier, G. L. & Tysdal, H. M.
The relative susceptibility of alfalfas to wilt and cold. Nebraska Agr. Exp. Stat. Res. Bull. 52. 15 p. D.1930. (Rec'd Mr. 1931)

Hoffman, I. C.
The use of manganese in vegetable greenhouses. Ohio Agr. Exp. Stat. Bimonth. Bull. 149: 58-62. illus. Mr./Ap. 1931.

Tilford, P. E.
Gladiolus diseases. Ohio Agr. Exp. Stat. Bimonth. Bull. 149: 67-73. illus. Mr./Ap. 1931.

Griffee, F., Ligon, L. H. & Brannon, L. H.
Biometrical analysis of Upland cotton grown at Stillwater Oklahoma. Oklahoma Agr. Exp. Stat. Bull. 187. 32 p. Je. 1929.

Cornell, F. D. jr.
Stationary spray systems in West Virginia. West Virginia Agr. Exp. Stat. Bull. 239. 28 p. illus. Ja.1931.

New Books.

Azzi, G.
Le climat du blé dans le monde, les bases écologiques de la culture mondiale du blé. Rome, Impr. de l'Institut international d'agriculture, 1930.

Cox, E.H.M.
The plant introductions of Reginald Farrer. London, New flora & silva, 1930.

Duyster, M.
Giftige Indische planten en plantenbestanddeelen. Bandoeg, Druk N.V. boekhandel Visser & Co., 1927.

Fedchenko, B. A.
Flora transbaicalica sumptibus societatis respublicanae geographicae Troitzkosavsk-Kiachta confecit B.A. Fedschenko. pars prima. Leningrad, 1929.
Russian.

New Books. (cont.)

Hurry, J. B.
The woad plant and its dye. Oxford, University press, 1930.

Janssonius, H. H.
Mikrographie des holzes der auf Java vorkommenden baumarten. 10. lfg. Leiden, E.J. Brill, 1930.

Jones, M. E.
Contributions to western botany no. 15-17. Claremont, Calif. Je. 6, 1929, F.17, S.3, 1930.
Includes reviews of books, botany of western U. S. & Mexico.

Rabenhorst's kryptogamen-flora... 2. aufl., 9. bd. Die flechten... IV. abt. Cladoniaceen und umbilicariaceen. 2. hälfte. Die gattung Cladonia. Von Dr. Heinrich Sandstedt. lfg. 1. Leipzig, 1931.

Roark, R. C. & Keenan, G. L.
Plants reputed to have insecticidal value, plants found in India. Washington, D. C., F.1931.
Mimeographed.
At head of title: U. S. Dept. of agriculture. Bur. of chemistry. Food & drug administration.

Rosenthaler, L.
The chemical investigation of plants...Authorised transl. of the 3d, improved and enl. German ed., by Sudhamoy Ghosh... London, G. Bell, 1930.

Shull, J. M.
Rainbow fragments. A garden book of the iris. Garden City, Doubleday, Doran & Co., 1931.

Smith, J. H.
Virus diseases of plants. In Medical research council. A system of bacteriology in relation to medicine. London, 1930, v.7, p.42-53.

Willcox, O. W.
Principles of agrobiology, or the laws of plants growth in relation to crop production. N.Y., Palmer publishing corp., 1930.

New Books. (cont.)

Zahlbruckner, A.
Catalogus lichenum universalis bd.7, bog.11-20. (p.161-320). Leipzig, Borntraeger, 1931.

Correction

v.13, no.3. Amer. For. & For. Life.
title of periodical should read Amer. For.; vol. should be 37.

Non-current indexing.

Bull. Soc. Chim. Biol. (Paris)

Berthelot, A.
Sur un milieu artificiel convenant particulièrement à la culture du B. tumefaciens. Bull. Soc. Chim. Biol. 12: 109-111. Ja. 1930. no.1.

Bull. Soc. Vaud. Sci. Nat. (Lausanne)

Amann, J.
Contribution à la flore cryptogamique du Maroc. Bull. Soc. Vaud. Sci. Nat. 57: 145-146. 1930. no.224.

Amann, J. & Meylan, C.
Nouvelles additions et rectifications à la flore des muscinées de la Suisse. VI. Bull. Soc. Vaud. Sci. Nat. 57: 121-144. illus. 1930. no.224.

Meylan, C.
Note sur un nouveau genre de myxomycètes. Bull. Soc. Vaud. Sci. Nat. 57: 147-149. illus. 1930. no. 224.
Diacheopsis gen. nov., D. metallica.

Wilczek, E.
Présence d'un Galinsoga dans le canton de Vaud. Bull. Soc. Vaud. Sci. Nat. 57: 115. 1930. no. 224.
G. parviflora.

Bull. Techn. Serv. Dept. Agr. Haiti

Haiti. Dept. Agr. - Techn. Serv.
Botany and plant pathology. In its Ann. Rep. 1927/28 - 1928-29. Bull. Techn. Serv. Dept. Agr. Haiti 13: 161-166. illus. 1929; 17: 149-155. 1929.
H.D. Barker, chief.
1927/28 in French.

Non-current indexing. (cont.)

Godishn. Sofiisk. Univ. II, Fiziko-Mat. Fakul. (Ann. Univ. Sofia II, Facul. Physico-Mat

Arnaudov, N.

Prinos kum fiziologiiata na nikneneto na tiutiuna (Nicotiana tabacum) (Beitrag zur keimungsphysiologie der tabaksamens) Godishn. Sofiisk. Univ. II, Fiziko-Mat. Fakul. (Ann. Univ. Sofia II, Facul. Physico-Mat.) 25: 113-157. 1929. no.3.

Bulgarian with German summary.

Illus. Landw. Zeit. (Berlin)

Pieper,

Die ursachen und wirkungen des kartoffelabbaues Illus. Landw. Zeit. 50: 134-135. Mr.7, 1930. no.10.

Informe Estac. Agron. Moca, Rep. Dominicana.

Ciferri, R.

Informe de patologia vegetal y de botanica. Informe Estac. Agron. Moca, Rep. Dominicana 3(1927): 23-30. [1928?]

Algunas enfermedades de las plantas observadas en 1927.

Journ. Agr. Assoc. China

Hu, C. C.

Principal cultivated varieties of citrus in China. Journ. Agr. Assoc. China. 75/76: 1-16. My.1930.

Chinese.

Journ. Biol. Chem.

Smith, J.H.C. & Spoehr, H.A.

Carotene. I-II. Journ. Biol. Chem. 86: 87-92, 755-760. Mr., Ap.1930. no.1,2.

I. The oxygen equivalent determined with potassium permanganate in pyridine solution. II. The volatile fatty acids obtained by the oxidation of carotene and xanthophyll.

Kleine Mitt. Mitgl. Ver. Wasser-, Boden u. Lufthygiene Beih. (Berlin-Dahlem)

Bethge, H.

Beitrage zur frage der empfindlichkeit von blättern gegen schweflige säure. Kleine Mitt. Mitgl. Ver. Wasser-, Boden u. Lufthgiene Beih. 6: 224-226. illus. Jl./O.1930. no.7/10.

Non-current indexing (cont.)

Kleine Mitt. Mitgl./Ver. Wasser-, Boden u. Lufthygiene Beih. (cont.)

Börger, H.
Wundperidermbildung von kartoffeln unter dem einfluss schwefliger säure. Kleine Mitt. Mitgl. Ver. Wasser-, Boden u. Lufthygiene Beih. 6: 227-232. illus. Jl./O.1930. no.7/10.

Dörries, W. & Haase, L.W.
Ueber den einfluss der wasserstoffionenkonzentration auf das wachstum von Leptomitus lacteus in künstlichen nährlösungen. Kleine Mitt. Mitgl. Ver. Wasser-, Boden u. Lufthygiene Beih. 6: 240-244. illus. Jl./O.1930. no.7/10.

Tiegs, E.
Ueber platanenhaare. Kleine Mitt. Mitgl. Ver. Wasser-, Boden u. Lufthygiene Beih. 6: 193-198. illus. Jl./O.1930. no.7/10.

Magyar Biol. Kut. Int. Munk. (Arb. Ungar. Biol Forsch. Inst.) (Tihany)

Soó, R.
A magyar vizek virágos vegetációjának rendszertani és szociologiai áttekintése. (Zur systematik und soziologie der phanerogamen vegetation der ungarischen binnengewässer. Magyar Biol. Kut. Int. Munk. (Arb. Ungar. Biol. Forsch.Inst.) 2: 45-79. 1928. no.1.
Hungarian and German.

Soó, R.
Typha és Hottonia teratológiak. (Monstrositäten von Typha und Hottonia). Magyar Biol. Kut. Int. Munk. (Arb. Ungar. Biol. Forsch. Inst.) 2: 80-83. illus. 1928. no.1.
German summary.

Mater. Kom. Izuchn. Iakutsk. Avton. Sov. Sots. Resp. (Mat. Comm. Étude Rép. Aut. Sov. Soc. Jakoute) (Leningrad)

Benua, L. A.
Predvaritel'nyĭ obzor mikologiceskikh i fitopatologicheskikh issledovaniĭ v Iakutii (Apercu préliminarie des recherches mycologiques et phytopathologiques en Iakoutie). Materialy Kom. Izuchn. Iakutsk. Avton. Sov. Sots. Resp. (Mat. Comm. Étude Rép. Aut. Sov. Soc. Iakoute) 8: 61-73. 1927.
Russian with English summary.

Non-current indexing (cont.)

Mater. Kom. Izuchn. Iakutsk. Avton. Sov. Sots. Resp. (Mat. Comm. Étude Rép. Aut. Sov. Soc. Jakoute) (cont.)

Drobov, V. P.
Kratkiĭ ocherk rastitel'nosti Densko-aldanskogo plato (Contribution a l'étude de la flore du plateau Léna-Aldan) Materialy Kom. Izuchn. Iakutsk. Avton. Sov. Sots. Resp. (Mat. Comm. Étude Rép. Aut. Sov. Soc. Iakoute) 8: 1-60. 1927.

Nedrigailov, S. N.
Lesnye resursy Lensko-aldanskogo plato i Zealdansko-verkhoĭanskogo gornogo raĭona (Les forêts du plateau Léna-Aldan et de la reion montagneuse trans-aldienne et de Verkhoansk). Materialy Kom. Izuchn. Iakutsk. Avton. Sov. Sots. Resp. (Mat. Comm. Étude Rép. Aut. Sov. Soc. Iakoute) 12. 468 p. illus., iii pl. iii maps. 1928.

Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz. (Charkiv)

Desiatova-Shoyenko, N. & Levin, E.
Botanichne doslidzhenniĭa Chornomors'kikh kis ta ostroviv: Tendera, Dzharilgacha, Orlova ta Dovgogo (Die botanische untersuchungen der halb- und inseln (Tender, Djarilgatsh, Orlow, Dolgy), welche am nördlichen ufer des Schwarzen-meers liegen). Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz) 1: 3-66. 4pl., 3 maps. 1928.
Ukrainian with German summary.

Klovkiv, M.
Noviĭ vid rodu Polygonum z Chornomors'kikh ostroviv (Eine neue art der gattung Polygonum, die auf den inseln des Schwarzen Meers gefunden wurde). Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz) 1: 73-74. 1928.
Ukrainian with Latin diagnosis of new sp. (P. janatae, P.pseudparenarium)

Kotov, M. I.
Sviati Gori Artemivs'koi okrugi (Die botanisch-geographische revue der "Svjatije Gory" (Heiligen gebirge) des Artemjow bezirk). Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz) 1: 115-126. 1928.
Ukrainian with German summary.

Non-current indexing (cont.)

Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz.) (cont.)

Lavrenko, E. & Poretsʼki, A.
Roslinnist Chelbasʼkogo i Ivanivsʼkogo masiviv to Kinburnsʼkoï josi Nizhne-Dniprovsʼkikh piskiv (Die vegetation der Tschelbassy und Iwanowka sandmassive und der Kinburischen erdlandzunge in den grenzen des Unter-Dnjeprs). Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz) 1: 126-177. 3pl., 2 maps. 1928.
Ukrainian with German summary.

Prianishinkov, O.
Botanichna ekskursiia na kosu (ostriv) Tender (Eine botanische excursion auf die insel Tender). Mater. Okhoroni Prir. Ukraïni (Beitr. Naturschutz). 1: 75-80. map. 1928.
Ukrainian with English summary.

Nature

Howitt, F. O.
Starch envelopes of pyrenoids. Nature. 125: 412-413. Mr.15, 1930. no.3150.

Path. Leafl. Dept. Agr. & Stock Queensl.

Simmonds, J. H.
Two strawberry leaf diseases. Path. Leafl. Dept. Agr. & Stock Queensl. No.14. 4 p. ii pl. F.1930.
Leaf scorch (Diplocarpon errliana); eye spot (Mycosphaerella fragariae)

Poona Agr. Coll. Mag. (Poona City)

Furtado, C. X.
Studies in Indian chillies. A critical note. Poona Agr. Coll. Mag. 21: 162-163. D.1929. no.3.
Comment on "Studies in Indian chillies" by F.J.S. & K.S.A.R. Khan.

Thadani, K. I.
Progress of rice breeding in Sind. Poona Agr. Coll. Mag. 21: 164-169. D.1929. no.3.

Wagle, P. V.
The mango hoppers and mildew and their control. Poona Agr. Coll. Mag. 21: 170-173. D.1929. no.3.

Non-current indexing (cont.)

Proc. Idaho State Hort. Assoc.
Fisher, D. F. & Reeves, E. L.
The influence of cleaning treatments on storage diseases of apples and pears. Proc. Idaho State Hort. Assoc. 33(1928): 87-103. pl. [1928?]

Hungerford, C. W.
A discussion of certain diseases of stone fruits and cane fruits in Idaho. Proc. Idaho State Hort. Assoc. 33(1928): 120-122 [1928?]

Proc. Nat. Acad. Sci.
Burnham, C. R.
Genetical and cytological studies of semi-sterility and related phenomena in maize. Proc. Nat. Acad. Sci. 16: 269-277. illus. Ao.1930. no.4.

Rev. Mus. La Plata (Buenos Aires)
Scala, A. C.
La validez del género "Magallana" Cav. y su rehabilitación. Rev. Mus. La Plata 32: 23-39. illus. 1930.

So. African Sugar Journ.
McClean, A. P. D.
Sugar cane diseases in South Africa. So. African Sugar Journ. 14: 399,401, 403, 405, 407. Je.30, 1930. no.6.

Trab. Mus. Com. Venequela (Caracas)
Diaz Moreno, M.
Los guarda-rocio de los Andes de Venezuela. (Alchemilla L. -Rosaceae) Trab. Mus. Com. Venezuela. 6: 285-292. D.1929.

Trav. Inst. Sci. Nat. Peterhof (Trudy Petergofs Estestv.-nauchn. Inst.)
Bogdanovskaja-Guenef, Y. D.
Rastitel'nyi pokrov verkhovykh bolot Russkoi Pribaltiki (Die vegetation der hochmoore des russischen Ostbaltikums). Trav. Inst. Sci. Nat. Peterhof (Trudy Petergofs Estestv.-nauchn. Inst.) 5: 265-377. 1928.
Russian with German summary.

Non-current indexing (cont.)

Trav. Inst. Sci. Nat. Peterhof. (Trudy Petergofs Estestv.-nauchn. Inst.) (cont.)

Chernova-Lepilova, G.K.
Verlhovye topfianiki kyrovitskogo plato (Die hochmoore des plateaus von Kuorwitzy (Im vormaligen kreise Kingissepp gouv. Leningrad) Trav. Inst. Sci. Nat. Peterhof (Trudy Petergofs Estestv. nauchn. Inst. 5: 378-404. map. 1928.
Russian with German summary.

Lapschina, E.
O perezimovyvanii bysshikh rastenii po nabliudeniiam v.okrestnostiakh Petergofa (Die überwinterung höherer pflanzen, nach in der umgebung Peterhofs gemachten beobachtungen). Trav. Inst. Sci. Nat. Peterhof (Trudy Petergofs Estestv.-nauchn. Inst.) 5: 36-98. illus. pl. 1928.
Russian with German summary.

Smirnova, Z. N.
Lesnye assotsiatsii severo-zapadnoi chasti Leningradskoi oblasti (Die waldassozationen des nord-westlichen teiles des Leningrader gebietes) Trav. Inst. Sci. Nat. Peterhof (Trudy Petergofs Estestv.-nauchn. Inst.) 5: 119-263. table. 1928.
Kreis Kingissepp ehemals Jamburg.
Russian with German summary.

Zeitschr.Forst- u. Jagdw. (Berlin)

Roeder,
Zur frage der kienzopfverbreitung. Zeitschr. Forst- u. Jagdw. 62: 241-242. Ap.1930. no.4.
Peridermium pini.

Exper. Stat. Publ.

Bessey, E. E.
Report of the section of botany, 1927/28. Ann. Rep. Agr. Exp. Stat. Mich. 41(1927/28): 170-175. 1928.
Plant physiology, R.P. Hibbard; Plant pathology G.H. Coons.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no.6. Mar. 16-28, 1931.

Agr. Journ. India (Calcutta)

Bose, R. D.
A study of sex in the Indian hemp. Agr. Journ. India 25: 495-503. pl.xxxii. N.1930. no.6.

Khan, A. R.
Some observations on the pollination of peaches (Prunus persica Benth. and Hook.) Agr. Journ. India 25: 492-494. pl. xxx-xxxi. N.1930. no.6.

Mohammad, A.
Some investigations into the effect of fertilizers on the growth and oil-content of a variety of linseed (Linum usitatissimum L.) Agr. Journ. India 25: 471-486. N.1930. no.6.

Turner, A. J.
Notes on Indian cottons. Agr. Journ. India 25: 487-491. N.1930. no.6.

Agr. Progr. (London)

Hudson, P. S.
The present position in plant breeding. Agr. Progr. 7: 25-36. 1930.

Mercer, S. P.
Recent progress in agricultural biology. A. Plant anatomy and physiology. Agr. Progr. 7: 7-11. 1930.

Millard, W. A.
The fungoid diseases associated with the eelworm attack on potatoes. Agr. Progr. 7: 58-60. 1930.
Stem canker (Corticium solani); black dot (Colletotrichum atramentarium)

Stirrup, H. H.
Recent progress in agricultural biology. B. Economic mycology. Agr. Progr. 7: 11-14. 1930.

Taylor, T. H.
The potato eelworm. Agr. Progr. 7: 57-58. 1930.
Heterodera schachtii.

Agr. Progr. (cont.)

Wallace, Thomas
Investigations on the nutrition of fruit trees; with special reference to potassium deficiency. Agr. Progr. 7: 61-71. 1930.
Abstract.

Amer. Fruit Grow. Mag. (Chicago)

Pierstorff, A. L.
Growers conquer raspberry diseases. Amer. Fruit Grow. Mag. 51(3):10-11,32. illus. Mr.1931.

Rosen, H. R.
Fire blight from infected beehives. Amer. Fruit Grow. Mag. 51(3): 5, 31-32. illus. Mr.1931.

Amer. Journ. Bot.

Colley, M. W.
Culture experiments with Pseudomonas tumefaciens. Amer. Journ. Bot. 18:211-214. Mr.1931. no.3.

Colley, M. W.
Notes on the technique of measuring the growth of bacteria with a nephelometer. Amer. Journ. Bot. 18: 205-210. Mr. 1931. no.3.

Dolk, H. E.
The movements of the leaves of the compass-plant, Lactuca scariola. Amer. Journ. Bot. 18: 195-204. illus. Mr. 1931. no.3.

Eames, A. J.
The vascular anatomy of the flower with refutation of the theory of carpel polymorphism. Amer. Journ. Bot. 18: 147-188. illus. Mr.1931. no.3.

Karper, R. E.
Multiple seeded spikelets in sorghum. Amer. Journ. Bot. 18: 189-194. illus. Mr.1931. no.3.

Wallace, R. H.
Studies on the sensitivity of Mimosa pudica II. The effect of animal anesthetics and certain other compounds upon seismonic sensitivity. Amer. Journ. Bot. 18:215-235. pl.xx. Mr.1931. no.3.

Amer. Rose Ann. (Harrisburg, Pa.)
Massey, L.M. & Parsons, B.
Rose-disease investigations, 2d progress report. Amer. Rose Ann. 1931: 65-80.

Anal. Inst. Biol. Univ. Nac. Mexico.
Gandara, G.
Flora representada en cerámica nahoa precortesiana. Anal. Inst. Biol. Univ. Nac. Mexico 1: 329-361. illus. 1930. no.4.

Ramirez Laguna, A.
Contribucion para el conocimiento de los agaves de Mexico. Agave karwinskii Zuccarini. Anal. Inst. Biol. Univ. Nac. Mexico 1: 313-317. illus. 1930. no.4.

Ann. Sci. Nat. Bot. (Paris)
Chouard, P.
Types de développement de l'appareil végétatif chez les scillées. Ann. Sci. Nat. Bot. X,13: 131-323. illus., pl.i-iv. Ja.1931. no.1.

Cugnac, A. de.
Recherches sur les glucides des graminées. Ann. Sci. Nat. Bot. X,13: 1-129. Ja.1931. no.1.

Ann. Agr. Exp. Stat. Chosen (Suigen, Chosen, Japan)
Nagai, I. & Imamura, A.
Morphology of the "neck" of the panicle as related to the resistance to brast(?) disease in rice varieties. Ann. Agr. Exp. Stat. Chosen (Suigen, Chosen, Japan) 5: 289-304. illus., 3 pl. on 2. O. 1930(Rec'd Mr.1931) no.5.
In Japanese.
Brast, is this blast?

Sonoda, S., Suzuki, M. & Mogami, K.
Further communication of the experiments on the fruit storage and the wrapping paper. Ann. Agr. Exp. Stat. Chosen (Suigen, Chosen, Japan) 5: 275-288. O.1930 (Rec'd Mr.1931) no.5.
In Japanese.

Ann. Appl. Biol. (London)

Hodson, W. E. H.
The stem and bulb eelworm, Tylenchus dipsaci (Kuhn) Bastian. A further contribution to our knowledge of the biologic strains of the nematode. Ann. Appl. Biol. 18: 83-97. F.1931. no.1.

Lacey, M. S. & Dowson, W. J.
Studies in bacteriosis. XVIII. A bacterial canker of apple trees. Ann. Appl. Biol. 18: 30-36. pl.vii. F.1931. no.1.
Bears a certain likeness to Bacillus amylovorus but it is regarded as identical with Pseudomonas papulans Rose.

Smith, K. M.
Studies on potato virus diseases. VIII. On a ringspot virus affecting solanaceous plants. Ann. Appl. Biol. 18: 1-15. pl.i-v. F.1931. no.1.

Thomas, M.
The production of ethyl alcohol and acetaldehyde by fruits in relation to the injuries occurring in storage. II. Injuries to apples and pears occurring in the presence of oxygen and in the absence of accumulations of carbon dioxide in the storage atmosphere. Ann. App. Biol. 18: 60-74. pl.viii. F. 1931. no.1.

Ann. Rep. Brooklyn Bot. Gard.

Graves, A. H.
Forest pathology. Ann. Rep. Brooklyn Bot. Gard. 20: 83-87. Mr.1931. no.2.

Reed, G. M.
Reports on research for 1930. Plant pathology. Ann. Rep. Brooklyn Bot. Gard. 20: 78-83. Mr.1931. no.2.

Ann. Rep. Fruit Grow. Assoc. Ontario (Toronto)

Berkeley, G. H.
What are plant diseases? Ann. Rep. Fruit Grow. Assoc. Ontario 61: 52-60. 1930.

Chamberlain, G. C.
Raspberry diseases. Ann. Rep. Fruit Grow. Assoc. Ontario 61: 60-62. 1930.

Ann. Rep. Fruit Grow. Assoc. Ontario (cont.)
Howitt, J. E.
The relation of weather and disease. Ann. Rep. Fruit Grow. Assoc. Ontario 61: 48-52. 1930.

Bergcultures (Batavia, Java)
Keuchenius, A.A.M.N.
Het meeldauw-vraagstuk in Zuid-Sumatra. Bergcultures 5: 148-151. F.7, 1931. no.6.

Better Fruit (Portland, Ore.)
McWhorter, O. T.
Brown rot cause of blossom blight and fruit rot loss. Better Fruit 25(10): 8,32. Mr.1931.
From discussions by H.P. Barss.

Biochem. Zeitschr. (Berlin)
Spitzer, K.
Ueber das vorkommen eines dioxyphenylderivates und eines spezifischen fermentes im apfel und anderen fruchtarten. Biochem. Zeitschr. 231: 309-313. illus. F.16, 1931. no.4/6.

Biol. Zentralbl. (Leipzig)
Zimmermann, W.
Die orientierung von pflanze und tier im raume. I. Botanischer teil. II. Zoologischer teil. Biol. Zentralbl. 51: 21-36. illus. 1931. no.1/2.

Blätt. Pflanzenb.u. Pflanzenzücht.
Mahner, A.
Ueber vorgänge, die beim beizen des getreides und bei der beurteilung der beizmittelwirkung zu beachten sind. Blätt. Pflanzenb. u. Pflanzenzücht. 9: 15-17. Mr.1931. no.1.

Blumen u. Pflanzenb. (Berlin)
Ludwigs, K.
Schädigungen an blumenzwiebeln, besonders an hyazinthen und tulpen. Blumen u. Pflanzenb. 46: 39-41. illus. Mr.1, 1931. no.3.

Bol. Union Panamer. (Washington, D. C.)
Johnston, J. R.
Enfermedades y plagas de la piña en la América tropical. Bol. Union Panamer. 65: 88-103. illus. Ja.F.1931.
Reprinted as Agricultura no.70. 16 p.F.1931.

Bot. Gaz.(Chicago)

Arnold, C. A.
Cordaitean wood from the Pennsylvanian of Michigan and Ohio. Bot. Gaz. 91: 77-87. illus. Mr.1931. no.1.

Cain, S. A.
Ecological studies of the vegetation of the Great Smoky Mountains of North Carolina and Tennessee. I. Soil reaction and plant distribution. Bot. Gaz. 91: 22-41. illus. Mr.1931. no.1.

Cross, G. L.
Meristem in Osmunda cinnamomea. Bot. Gaz. 91: 65-76. illus. Mr.1931. no.1.

Dowding, E. S.
Floral morphology of Arceuthobium americanum. Bot. Gaz. 91: 42-54. illus. Mr.1931. no.1.

Edgecombe, A. E.
Immunological relationship of wheat resistant and susceptible to Puccinia rebigo-vera triticina. Bot.Gaz. 91: 1-21. Mr.1931. no.1.

Erlanson, E. W.
A group of tetraploid roses in central Oregon. Bot. Gaz. 91: 55-64. illus. Mr. 1931. no.1.

Erwin, A. T.
Nativity of the cucurbits. Bot. Gaz. 91: 105-108. illus. Mr.1931. no.1.

Featherly, H. I.
A new species of grama grass. Bot. Gaz. 91: 103-105. illus. Mr.1931. no.1.
Pouteloua pectinata.

Frost, F. H.
Specialization in secondary xylem of dicotyledons. III. Specialization of lateral wall of vessel segment. Bot. Gaz. 91: 88-96. illus. Mr. 1931. no.1.

Guard, A. T.
Development of floral organs of the soy bean. Bot. Gaz. 91: 97-102. illus. Mr.1931. no.1.

Bull. Agence Gén. Colon. France. (Paris)
Heim de Balsac, F., Heim de Balsac, H. & Maheu, J.
Palmiers oléiferes de Guyane. Bull. Agence Gén. Colon. France 24: 260-274. 3 pl. F.1931.

Bull. Amer. Iris Soc.
Waller, A. E.
The relation between water loss, size and form in iris flowers. Bull. Amer. Iris Soc. 38: 79-83. illus. Ja.1931.

Bull. Dept. Agr. Gold Coast (Accra)
Hewison, H. K. & Ababio, N. K.
Flower and fruit production of Theobroma cacao. Bull. Dept. Agr. Gold Coast 22: 87-94. 4 pl. 1930.

Hill, H. L.
The shea tree (Butyrospermum parkii) in the northern territories. Bull. Dept. Agr. Gold Coast 22: 226-232. 5 pl. (part.col.) 1930.

Bull. Gard. Club Amer.
Lloyd, M. H. W.
Is there hope for the chestnut? Bull. Gard. Club Amer. 4(14): 52-57. Mr.1931. no.14.

Bull. Mens. Soc. Nat. Hort. France (Paris)
Barbieri, N. A.
La vie des plantes dans des atmospheres confinees depourvues d'anhydride carbonique. Bull. Mens. Soc. Nat. Hort. France V,4: 57-62. illus. Ja.1931.
Not indispensable to life of plant.

Bull. Mus. Géorgie (Tiflis)
Shishkin, B.
Duae species novae Caucasicae generis Dianthi L. Bull. Mus. Géorgie 5(1928): 121-124. illus. 1930.
Dianthus acantholimonoides, D. imerethicus.

Bull. Orto Bot. Univ. Napoli.
Cavara, F.
In memoria di Giuseppe Lopriore. Bull. Orto Bot. Univ. Napoli 9: 157-168. port. 1929(Rec'd F.1931) no.2.

Bull. Orto Bot. Univ. Napoli (cont.)

Cavara, F.
Piante raccolte in un viaggio in Persia. (Marzo-Giugno 1926) Primo contributo. Bull. Orto Bot. Univ. Napoli 9: 143-156. 1929 (Rec'd F.1931) no.2.

Cavara, F. & Chistoni, A.
Sul contenuto in morfina dell'oppio di alcuni ibridi di Papaver somniferum L. Bull. Orto Bot. Univ. Napoli 9: 169-172. 1929(Rec'd F.1931) no.2.

Nicotra, L.
Nuovi studi sul sistema delle crocifere. Bull. Orto Bot. Univ. Napoli 9: 137-141. 1929(Rec'd F. 1931) no.2.

Rodio, G.
Ricerche sui pigmenti delle floridee. Bull. Orto Bot. Univ. Napoli 9: 93-134. pl.v. 1929(Rec'd F.1931) no.2.

Bull. Sci. Pharm. (Paris)

Villedieu, G.
Cuivre et mildiou. Bull. Sci. Pharm. 38: 25-32. F.1931. no.2.

Bull. Soc. Centr. For. Belgique (Bruxelles)

Le pourridie´ des arbres fruitiers et forestiers. Bull. Soc. Centr. For. Belgique 38: 55-62. Fa./F. 1931. no.1/2.

Bull. Soc. Hist. Nat. Afr. Nord (Alger)

Choisy, M. & Werner, R. G.
Solenopsora montagnei (E.Fr.) Choisy et R. G. Werner nov. comb. et le genre Solenopsora (Massalongo) emend. Bull. Soc. Hist. Nat. Afr. Nord 22: 7-12. illus. 1931. no.1.
S. montagnei (Lecanora)

Maire, R.
Champignons nord-africains nouveaux ou peu connus. fasc.5. Bull. Soc. Hist. Nat. Afr. Nord 22: 13-24. illus. 1931. no.1.

Bull. Soc. Hist. Nat. Afr. Nord. (cont.)
Maire, R.
Contribution à l'étude de la flore de l'Afrique du nord fasc.17. Bull. Soc. Hist. Nat. Afr. Nord 22: 30-72. 1931. no.1.

Bull. Soc. Nat. Acclim. France (Paris)
Chouard, P.
Une région lacustre des Pyrénées centrales: Orédon et le massif de Néouvielle. Bull. Soc. Nat. Acclim. France 78: 42-58. illus., pl.1-3. F.1931. no.2.

La Cellule (Lierre, Belgium)
Bleier, H.
Untersuchungen über das verhalten de verschiedenen kernkomponenten bei der reduktionsteilung von bastarden. La Cellule 40: 83-144. 2 pl. 1930. no.1.
Aegilops-wheat, wheat-rye hybrids.

Jungers, V.
Recherches sur les plasmodesmes chez les végétaux I. La Cellule 40: 5-81. 4 pl. 1930. no.1.

Chem. Umschau (Stuttgart)
Ivanov, S.
Sur erkenntnis der pflanzenöle der U.d.S.S.R. vii. Kompositenöle. Chem. Umschau 38: 53-55. F.26, 1931. no.4.

Citrus Indust. (Tampa, Fla.)
Barnette, R. M., DeBusk, E. F., Hester, J. B. & Jones, H.W.
The mineral analysis of a nineteen year old marsh seedless grapefruit tree. Citrus Indust. 12(3): 5-6, 34. illus. Mr.1931.

Citrus Leaves (Redlands, Cal.)
Bartholomew, E. T.
Studies show breathing spores of mature citrus leaves still active. Citrus Leaves 11(3): 6-8. illus. Mr.1931. no.3.
Work done on 1500 leaves proves stomata on even fourth cycle leaves continue to function.

Compt. Rend. Acad. Agr. France (Paris)

Bertrand, G. & Lévy, Mme. G.
L'aluminium dans les plantes. Compt. Rend. Acad. Agr. France 17: 235-238. Mr.4, 1931. no.8.

Foex, E., Dufrénoy, J. & Labrousse, F.
La maladie des épinards. Compt. Rend. Acad. Agr. France 17: 216-218. F.25, 1931. no.7.
Pythium ultimum.

Compt. Rend. Acad. Sci. Paris.

Cassaigne, Mlle.
Sur l'origine des vacuoles. Compt Rend. Acad. Sci. Paris 192: 580-582. Mr.2, 1931, no.9.

Guilliermond, A.
Sur la conjugaison des ascopores chez les levures et quelques points obscurs . . du développement de ces champignons. Compt. Rend. Acad. Sci. Paris 192: 577-579. Mr.2, 1931. no.9.

Jaguenaud, G.
Sur l'influence de la nature du sol et des radiations sur la dégénérescence de la pomme de terre Compt. Rend. Acad. Sci. Paris 192: 582-583. Mr.2, 1931. no.9.

Compt. Rend. Soc. Biol. Paris

Bretin, P., Manceau, P. & Rey, J.
Absorption du potassium par le Penicillium glaucum cultivé sur liquide de Raulin additionné de quantites croissantes de chlorure de potassium. Compt. Rend. Soc. Biol. Paris 106: 652-653. Mr.6, 1931. no.8.

Fernandes, A.
Le nombre et la morphologie des chromosomes, chez Kniphophia aloïdes Moench, Zephyranthes lindleyana Herb. et quelques espèces du genre Aloë L. Compt. Rend. Soc. Biol. Paris 106: 567-568. F.27, 1931. no.7.

Manceau, P.
Réactions du Penicillium glaucum cultivé sur liquide type de Raulin additionne de doses croissantes de chlorure d'aluminium; métabolisme des sucres et influence de la réaction du milieu. Compt. Rend. Soc. Biol. Paris 106: 654-655. Mr.6, 1931. no.8.

Compt. Rend. Soc. Biol. Paris. (cont.)
Sartory, A., Sartory, R. & Meyer, J.
Etude botanique et biologique d'une nouvelle levure rose (Cryptococcus radiatus (n.sp.) Compt. Rend. Soc. Biol. Paris 106: 597-598. F.27, 1931. no.7.

Costa Azzurra Agr.-Flor. (Sanremo)
Calvino, E. M.
Esperienze sulla germinazione dei semi di rosa. Costa Azzurra Agr. Flor. 10: 257-259, 288-290. O.,N. 1930. no.10,11.

Deut. Landw. Presse (Berlin)
Könekamp, A.
Sonnenblume als gärfutterpflanze. Deut. Landw. Press 58: 135-136. illus. Mr.7 1931. no.10.

Formosan Agr. Rev.
Sawada, K.
On the names of plants settled at Conference of Chieves of the agricultural experimental stations. Formosan Agr. Res. 1931: 147-158. F.1931. no.291.
In Japanese.

Forstw. Centralbl. (Berlin)
Bornebusch, C. H.
Die floratypen der dänischen buchenwälder und ihre wirtschaftliche bedeutung. Forstw. Centralbl. 53: 171-183. illus. Mr.1, 1931. no.5.

Fortschr. Landw. (Vienna)
Semsroth, H.
Die abstammung der deutschen krebsfesten kartoffelsorten. Fortschr. Landw. 6: 195-197. Mr.15, 1931. no.6.

Gard. Chron. (London)
Arthur John Bliss. Gard. Chron. III, 89: 174. F.28,1931. no.2305.

Comber, H. F.
The seasonal behaviour of plants from the southern hemisphere. Gard. Chron. III, 89: 163-164. illus. F.28, 1931. no.2305.

Grove, A.
Lilies of the Cardiocrinum group. Gard. Chron. III, 89: 166-167. illus. F.28,1931. no.2305.

Gard. Chron. (cont.)

Hay, T.
Primula sonchifolia, Franch. Gard. Chron. III, 89: 168-169. illus. F.28,1931. no.2305.

Wallace, R. W.
Notes on lilies. Gard. Chron. III, 89: 167-168. F.28, 1931. no.2305.

Ward, F. K.
The Roosevelt expedition in French Indo-China. XI. From Muongsing to Namtha. Gard. Chron. III, 89: 184-185. illus. Mr.7,1931. no.2306.

Gartenschönheit. (Berlin)

Foerster, K.
Einzug der winterharten schmuckgräser in die gärten. Gartenschönheit 12: 22-25. illus. F.1931. no.2.

Herre, H.
Eine sukkulenten- sammelreise in Süd-Afrika. Gartenschönheit 12: 39-40. illus. F.1931. no.2.

Kayser, K.
Ein neuer Ariocarpus. Gartenschönheit. 12: 33. illus. F.1931. no.2.
A. strobiliformis.

Gartenw. (Berlin)

Garbers, Fr. & Hürländer, L.
Das rätselhafte grosse ulmensterben. Gartenw. 35: 113-114. illus. F.27, 1931. no.9.
Welche massnahmen gegen das ulmensterben? by Fr. Garbers. Frühfrost die ursache des ulmensterbens? by L. Hürlander.

Hedwigia (Dresden)

Reimers, H.
Ein beitrag zur moosflora von Korea. Hedwigia 70: 359-372. Ja.1931. no.6.

Hereditas (Lund)

Clausen, J.
Genetic studies in Polemonium. III. Preliminary account on the cytology of species and specific hybrids. Hereditas 15: 62-66. Mr.2, 1931. no.1.

Hereditas (cont.)

Clausen, J.
Viola canina L., a cytologically irregular species. Hereditas 15: 67-88. illus. Mr. 2, 1931. no.1.

Fakansson, A.
Ueber chromosomenverkettung in Pisum. Hereditas 15: 16-61. illus. Mr.2, 1931. no.1.
English summary: p.58-59.

Müntzing, A., Tedin, O. & Turesson, G.
Field studies and experimental methods in taxonomy. Hereditas 15: 1-12. 1931. no.1.

Turesson, G.
Studien über Festuca ovina L. III. Weitere beiträge zur kenntnis der chromosomenzahlen viviparer formen. Hereditas 15: 13-16. illus. Mr.2, 1931. no.1.

Hilgardia (Berkeley, Cal.)

Haas, A.R.C. & Klotz, L. J.
Some anatomical and physiological changes in citrus produced by boron deficiency. Hilgardia 5: 175-189. illus., 4pl. Ja.1931. no.8.

Indische Cult. (Soerbaja)

Wigman, H. J.
Vanilla Sw. Indische Cult. 16: 127-132. illus. F.16, 1931. no.4.

Jahresber. Ver. Naturw. Braunschweig

Meyer, F. J.
Die buchenwälder des Braunschweiger hügellandes Jahresb. Ver. Naturw. Braunschw. 21: 9-28. illus. pl.i-vii. 1930.

Meyer, F. J.
Die pineta silvestris in norden von Braunschweig Jahresb. Ver. Naturw. Braunschw. 21: 45-62. pl.xi-xii. 1930.

Meyer, F. J.
Ueber einige eichenwälder in der nahre von Braunschweig. Jahresb. Ver. Naturw. Braunschw. 21: 29-44. illus., pl.viii-x. 1930.

Journ. Amer. Pharm. Assoc. (Easton, Pa.)

Briggs, W. P.
A phytochemical and pharmacological study of Mitchella repens (Linné) N.F.V. Journ. Amer. Pharm. Assoc. 20: 224-226. Mr.1931. no.3.

Gillis, E. & Langenhan, H. A.
A phytochemical study of Hydrastis canadensis (goldenseal) Journ. Amer. Pharm. Assoc. 20: 210-224. illus. Mr. 1931. no.3.

Journ. Amer. Soc. Agron. (Geneva, N.Y.)

Akemine, M.
Crop plants under cultivation in Japan. Journ. Amer. Soc. Agron. 23: 161-174. Mr.1931. no.3.

Dustman, R. B. & Shriver, L.C.
The chemical composition of Ambrosia trifida at successive growth stages. Journ. Amer. Soc. Agron. 23: 190-194. Mr.1931. no.3.

Journ. Bacteriol. (Baltimore)

Curran, H. R.
Influence of osmotic pressure upon spore germination. Journ. Bacteriol. 21: 197-209. Mr.1931. no.3.

Curran, H. R.
Influence of surface tension upon the germination of bacterial spores. Journ. Bacteiol. 21: 213-218. Mr.1931. no.3.

Journ. Bot. Soc. So. Afr.(Cape Town)

Barker, W. F.
Lachenalia. Journ. Bot. Soc. So. Afr. 16: 1013. pl. ii. 1930.

Fluggee de Smidt, R.A.H.
Orothamnus zeyheri. Journ. Bot. Soc. So.Afr. 16: 16. pl.i,iii. 1930.

Levyns, M.R.
The rhenoster bush. Journ. Bot. Soc. So. Afr. 16: 14-15. 1930.
Elytropappus rhinocerotis.

Journ. Bot. Soc. So. Afr. (cont.)

Lloyd, F. E.
The structure of the trap of Utricularia capensis. Journ. Bot. Soc. So. Afr. 16: 5-10. illus. 1930.

Journ. Cactus & Succ.Soc. Amer.

Baxter, E. M.
The genus Lophocereus. Journ. Cactus & Succ. Soc. Amer. 2: 431-432. illus. Mr.1931. no.9.

Broadway, M. E.
Baby cacti in the West Indies. Journ. Cactus & Succ. Soc. Amer. 2:440. Mr.1931. no.9.

Brown, N.E.
Some new species of Conophytum. Journ. Cactus & Succ. Soc. Amer. 2: 425-429. 1 pl. Mr.1931. no.9.

Journ. Genetics (London)

Cayley, D. M.
The inheritance of the capacity for showing mutual aversion between mono-spore mycelia of Diaporthe perniciosa (Marchal) Journ. Genetics 24: 1-63. pl.1. F.1931. no.1.

Crane, M.B. & Lawrence, W.J.C.
Sterility and incompatibility in diploid and polyploid fruits. Journ. Genetics 24: 97-107. 1930. no.1.

Darlington, C. D.
Meiosis in diploid and tetraploid Primula sinensis. Journ. Genetics 24: 65-96. illus. F. 1931. no.1.

Newton, W.C.F.
Genetical experiments with Silene otites and related species. Journ. Genetics 24: 109-120. illus., pl. ii. F.1931. no.1.

Winton, D.de. & Haldane, J.B.S.
Linkage in the tetraploid Primula sinensis. Journ. Genetics 24: 121-144. F.1931. no.1.

Journ. Landw. (Berlin)
Buchinger, A.
Beiträge zur kenntnis der physiologie von Convolvulus arvensis L. Journ. Landw. 79: 3-14. 1931. no.1.

Journ. Min. Agr. Gt. Brit. (London)
Long, H. C.
Weeds of grass land IV. Journ. Min. Agr. Gt. Brit. 37: 1192-1198. 8 pl. on v. Mr. 1931. no.12.

Kranke Pflanze (Dresden)
Kermann,
Die technik der saatgutbeize. Kranke Pflanze 8: 16-19. illus. F.1931. no.2.

Landgraf, T.
Die alchenseuche auch an dahlien (Dahlia variabilis) Kranke Pflanze 8: 24-25. illus. F. 1931. no.2.
Resembles Aphelenchus olesistus.

Laubert, R.
Achtet auf den schädlichen neuen rostpilz der mahonie! Kranke Pflanze 8: 22-23. illus. F.1931. no.2.

Landbouw. Tijdschr. Vereen. Landb. Nederl.-Indië (Buitenzorg)
Wellensiek, S. J.
De vatbaarheid voor slijmziekte van 32 geïmporteerde aardappelrassen. (The bacterial wilt-disease susceptibility of 32 imported potato-varieties). Landbouw Tijdschr. Vereen. Landb. Nederl.-Indië. 6: 698-702. diagrs. D.1930. no.6
English summary: p.702.
Bacterium solanacearum.

Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwwetensch. (Amsterdam)
Paerels, J. J.
In memoriam M.W. Beyerinck. Landbouwk. Tidjschr. Maandbl. Nederl. Genootsch. Landbouwwetensch. 43: 65-66. F.1931. no.515.

Landw. Jahrb. Schweiz (Bern)

Wahlen, F. T.

Die sortenbeschreibung beim getreide. Landw. Jahrb. Schweiz 45: 71-92. illus. 1931. no.1.

Wiesmann, R.

Untersuchungen über apfel- und birnschorfpilz Fusicladium dendriticum (Wallr.) Fckl. und Fusicladium pirinum (Lib.) Fckl, sowie die schorfanfälligkeit einzelner apfel- und birnsorten. Landw. Jahrb. Schweiz 45: 109-156. 8 pl. on 4. 1931.no.1.

Lauksiamn. Meneŝr. (Riga)

Budberg, E.

Novērojumi par auzu un linu ienēmību pret rūsām atkarībā no dažādiem mēslojumiem (Beobachtungen über den einfluss der wichtigsten düngemittel (K,P,N) auf die empfänglichkeit des hafers und des flachses für den rostpilz) Lauksaimm. Meneŝr. 1931: 128-149. illus. F.1931. no.2.

German summary: App. p.3-4.

Lingnan Sci. Journ. (Lingnaam Agr.Rev.)(Canton, China)

Metcalf, F. P.

Herbaria in China. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 9: 351-356. D.1930 (Rec'd Mr.1931) no.4.

Madroño (San Francisco)

Howell, J. T.

Plantae occidentales. II. Madroño 2: 18-23. Mr.1931. no.2.

Grindelia bracteosa n.sp.

Mason, H. L.

Two new California plants. Madroño. 2: 23. Mr. 1931. no.2.

Linanthus peirsoni, Utricularia gibba.

Meded. Rijks Herb. Leiden

Braun Blanquet, J. & Pavillard, J.

Vocabulair de plantensociologie. Uebersetzt aus dem französischen von W.C. de Leeuw. Meded. Rijks Herb. Leiden 60. 22 p. 1930.

Meded. Rijsk Herb. Leiden (cont.)

Henrard, J.Th.

New or insufficiently known species and new binomials in the genus Digitaria. Meded. Rijks Herb. Leiden 61. 21 p. illus. 1930.

D.mattogrossensis, D. balansae, D. paraguayensis, D. pectinata, n.spp.

Jansen, P.

Two new species of Eriachne. Meded. Rijks Herb. Leiden. 59. 2 p. 1930.

E. burkittii, E. laidlawii.

Mem. Dept. Agr. India Bot. Ser.

Ramiah, K.

The inheritance of characters in rice. Part III. Mem. Dept. Agr. India Bot. Ser. 18:211-227. 8 pl. on 7 (2 col.) S.1930 (Rec'd Mr.1931) no.7.

Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr.

Osterwalder, A.

Der wurzelkropf oder die hernie der kohlgewächse (kohlhernie). Mitt. Schweiz. Versuchsanst. Obst-Wein- u. Gartenb. Wädenswil Flugschr. no.18. 4 p. illus. My.6, 1930.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)

Riehm, E.

Gesundheitschädigungen durch beizmittel. Nachrichtenbl. Deut. Pflanzenschutzd. 2:19-20. Mr.1931. no.3.

Nat. Canad. (Quebec)

Armours, Omer-C d'

La theorie des chromosomes. Son origine - Son explication - Sa valeur. - Son utilé. (cont.) Nat. Canad. 58: 58-61. Mr.1931. no.3.

New Jersey State Hort. Soc. News (New Brunswick, N.J.)

Blake, M. A.

Response of apple trees injured by 1931 drought. New Jersey State Hort. Soc.News 12: 367-368. illus. Ja.1931. no.1.

Northwest Science (Cheney)

Sprague, R.

The distribution of cereal footrots in the Pacific Northwest. Northwest Science 5: 10-12. Mr.1931. no.1.

The Columbia basin footrot of wheat (undetermined sterile fungus) - Take-all (Ophiobolus graminis) of wheat. - A footrot of oats.

Parfum. Mod. (Lyon, France)

Ledreux,

Le giroflier à Madagascar. Parfum. Mod. 25: 73, 75, 77, 79, 81, 83. illus. F.1931. no.2.

Pharm. Zentralh. (Dresden)

Bauer, K.H. & Radjhan, T.C.

Ueber das aconitin des in Kaschmir heimischen Aconitum chasmanthum. Pharm. Zentralh. 72: 145-152. Mr.5, 1931. no. 10.

Richter, J.

Das gefühl der pflanze. Pharm. Zentralh. 72: 129-133. F.26, 1931. no.9.

Physis (Buenos Aires)

Cabrera, A. L.

Notas sobre compuestas de la República Argentina. Physis 10: 277-289. illus. Ja.30, 1931. no.36.

Chiarelli, A.

Profesor doctor Hermann von Ihering (1850-1930). Physis 10: 339-342. port. Ja.30, 1931. no.36.

Pomol. Franç. (Villefranche, France)

Riviere, G.

Essai comparatif entre la composition chimique de nos principaux fruits de table et leur saoidité. Pomol. Franc. 1931: 21-22. F.1931. no.2.

Proc. Iowa Acad. Sci. (Des Moines)

Adams, R. P.

Weed succession on an abandoned roadway. Proc. Iowa Acad. Sci. 36(1929): 213-219. 1931?

Proc. Iowa Acad. Sci. (cont.)

Blagg, B.
Additional notes on Iowa mosses. Proc. Iowa Acad. Sci. 36(1929): 137-139. 1931?

Cavanagh, L.M.
Notes on Iowa mosses I. Proc. Iowa Acad. Sci. 36(1929): 133-135. 1931?

Conard, H. S.
Gametophytes of Botrychium virginianum in Iowa. Proc. Iowa Acad. Sci. 36(1929): 141-142. illus. 1931?

Craeger, D. B.
Reproduction in Cyathus stercoreus (Schw.) De Toni. Proc. Iowa Acad. Sci. 36(1929): 121-124. illus. 1931?

Deihl, D. G.
The distribution of the genus Tradescantia in Iowa. Proc. Iowa Acad. Sci. 36(1929): 143-146. 1931?

Gilman, J. C.
Lightning injury to alfalfa. Proc. Iowa Acad. Sci. 36(1929): 125-126. 1931?

Hayden, A. & Martin, J.N.
Structure and composition of pollen grains of vernal plants. Proc. Iowa Acad. Sci. 36(1929): 233-239. 1931?

Howard, F. L.
Do significant physiological strains of Bacillus amylovorus (Burr.) Trev. exist? Proc. Iowa Acad. Sci. 36(1929): 105-110. 1931?

Hutchings, G. C. & Larsen, J. A.
Stimulation of root growth on cuttings from hardwood forest trees. Proc. Iowa Acad. Sci. 36(1929): 191-200. 1931?

Johns, M. R.
Heliantheae of Iowa. I. Proc. Iowa Acad. Sci. 36(1929): 147-184. illus. 1931?

Proc. Iowa Acad. Sci. (cont.)

Lindly, J.M.
Flowering plants of Henry County, Iowa, Ill.
Proc. Iowa Acad. Sci. 36(1929): 185-188 1931?

Lindstrom, E. W.
Fruit size and shape genes on the first chromosome of the tomato. Proc. Iowa Acad. Sci. 36(1929): 189-190. 1931?

Martin, G. W.
Notes on Iowa fungi, 1928. Proc. Iowa Acad. Sci. 36(1929): 127-130. plate. 1931?
The Iowa species of Mutinus - Stypella minor- Roesleria pallida - Ustilago sieglingiae.

Melhus, I.E. & Patel, M.K.
Study of Peronospora trifoliorum DeBary on species of Leguminosae. Proc. Iowa Acad. Sci. 36(1929): 113-119. illus. 1931?

Pammel, L.H. & King, G.M.
Germination of trees and shrubs. Proc. Iowa Acad. Sci. 36(1929): 201-211. illus. 1931?
12th of series of germination studies.

Pammel, L.H. & King, C.M.
Heights of weeds. Proc. Iowa Acad. Sci. 36(1929): 221-231. 1931?

Progr. Agr. & Vitic. (Montepellier)

Bènes, G.
Contribution a l'étude sur le court-noué. Quelques rapprochements. Progr. & Vitic. 95: 204-207. Mr.1, 1931. no.9.

Ravaz, L.
La concentration de la sève, la coulure et les maladies cryptogamiques. Progr. Agr. & Vitic. 95: 222-226. Mr.8, 1931. no.10.

Publ. Moravský Zem. Výzk. Ústav. Zdrav. Rostl. Brně.

Baudys, E.
Sclerotium rhizodes na travách (Sclerotium rhizodes on grasses). Publ. Moravský Zem. Výzk. Ústav Zdrav. Rostl. Brně no.95. 8 p. illus. 1930.
Reprinted from Mykologia v.7, no.4/5.
Czechoslovakian with English summary.
Undetermined Sclerotinia.

Publ. Moravský Zem. Zýzk. Ústav. Zdrav. Rostl. Brně (cont.)
Picbauer, R.
Additamentum ad floran Jugoslaviae mycologicam. Publ. Moravský Zem. Výzk. Ústav Zdrav. Rostl. Brně 87. 6p. 1929.

Rassegna Econ. Colon. Italy (Roma)
Guidotti, R.
La palma dum nella Somalia Italiana. Rassegna Econ. Colon Italy 18: 1203-1210. incl. 5 pl. on 4. N./D. 1930. no.11/12.

Rec. Trav. Bot. Néerl. (Amsterdam)
Honert, T.H. van den
Carbon dioxide assimilation and limiting factors. Rec. Trav. Bot.Néerl. 27: 149-286. illus. 1930.

Kuilman, L. W.
Physiologische untersuchungen über die anthocyane. Rec. Trav. Bot. Néerl. 27: 287-416. illus. 1930.

Nuernbergk, E. & Du Buy, H.G.
Ueber methoden zur analyse von wachstumserscheinungen. Rec. Trav. Bot. Néerl. 27: 417-520. illus., pl.vii. 1930.

Oort, A.J.P.
Die sexualität von Coprinus fimetarius. Rec. Trav. Bot. Néerl. 27: 85-148., illus., pl.iv- vi. 1930.

Stomps, T.J.
Ueber vergrünung der blüte bei Oenothera. Rec. Trav. Bot. Néerl. 27: 521-524. pl.viii. 1930.

Tammes, P.M.L.
On the origin of number and arrangement of the places of exit on the surface of pollen-grains. Rec. Trav. Bot. Néerl. 27: 1-84. illus.,pl.i-iii. 1930.

Repert. Spec. Nov. Fedde. (Berlin)
Bornmüller, J.
Galium silvaticum L. var. exstipulare Bornm. (nom.nov.) Repert. Spec. Nov. Fedde 29(Repert. Europ. & Med. 3,22): 38-39. Ja.31,1931. no.1/3.

Repert. Spec. Nov.Fedde (cont.)

Bornmüller, J.
Ueber einige neue kleinasiatische Rhamnusarten und bemerkungenswerts über andere kritische arten dieser gattung aus Anatolien. Repert. Spec. Nov. Fedde 29(Repert. Europ. & Med. 3,22): 33-38. Ja.31, 1931. no.1/3.
Rhamnus thymifolia, R. amasiensis, R. bithynica, n.spp.

Guşuleac, M.
Die monotypischen und artenarmen gattungen der anchuseas (Caryolopha, Brunnera, Hormuzakia, Gastrocotyle, Phyllocara, Tachystemon, Procopiania und Borago). Repert. Spec. Nov. Fedde 29(Repert. Europ. & Med. 3,22): 42-47. 6 pl. Ja.31,1931.no.1/3.

Guşuleac, M.
Das system der Boraginaceae nach den neuesten untersuchungen. Repert. Spec. Nov. Fedde 28: 240. D.31, 1930. no.14/20.

Gyelnik, V.
Lichenes extraeuropaei novi criticique. Repert. Spec. Nov. Fedde 29: 1-10. Ja.31, 1931. no.1/3.

Gyelnik, V.
Squamariae nonnullae. Repert. Spec. Nov. Fedde 29(Repert. Europ. & Med. 3,22): 40-41. Ja.31, 1931. no.1/3.

Harms, H.
Zum andenken an August Brand. Repert. Spec. Nov. Fedde 28(Repert. Europ. & Med. 3,17/20): 322. D.31, 1930. no.14/20.

Magalon, M.
Contribution à l'étude des palmiers de l'Indochine française. Repert. Spec. Nov. Fedde. 29: 18-24. Ja.31,1931 no.1/3.
"Auszug seiner dissertation (Montpellier 1930) mit gleichem titel".

Renz, J.
Beitrage zur orchideenflora der Insel Kreta. Repert. Spec. Nov. Fedde 28(Repert. Europ. & Med. 3,17/20): 241-262. illus., pl.cviii. D.31,1930. no.14/20.

Repert. Spec. Nov. Fedde. (cont.)

Pilger, R.

Plantago coronopus L. und verwandte arten. Aufzählung der arten der Coronopus-gruppe und ihre unterschiede. Repert. Spec. Nov. Fedde. 28(Repert. Europ. & Med. 3,17/20): 262-322. D.31, 1930. no.14/20.

Schmidt, O.C.

Beiträge zur kenntnis der flora Westindiens. V. Repert. Spec. Nov. Fedde 29: 10-17. Ja.31, 1931. no.1/3.

Eine neue Selaginella aus Trinidad (S.maracasensis) - Aristolochia nova hispaniolica (A. montana) - Polygonaceae Ekmanianae - Lauraceae Ekmanianae - Ternstroemiaceae (Laplacea samuellssonii n.sp.) - Lythraceae.

Schmidt, O. C.

Neuer arten der gattung Selaginella von den Marquesas-Inseln. Repert. Spec. Nov. Fedde 28: 236-238. D.31, 1930. no.14/20.

Selaginella browneana, S. bishopiana, S. jonesii, n.spp.

Schmidt, O. C.

Zur kenntnis der gattung Weinmannia L. in Peru. Repert. Spec. Nov. Fedde 29: 30-32. Ja.31, 1931. no.1/3.

Weinmannia piurensis, W. apurimacensis, W. latielliptica, n.spp.

Trelease, W.

Piperaceae hispaniolenses V. Repert. Spec. Nov. Fedde 29: 24-30. Ja.31,1931. no.1/3.

Urban, I.

Sertum antillanum XXX. Repert. Spec. Nov. Fedde 28: 209-235. D.1930. no.14/20.

Rep. Dept. Agr. Gov't Res. Inst. Formosa

Sawada, K.

On the systematic investigation of Phyllactinia in Formosa Rep. Dept. Agr. Gov't Res. Inst. Formosa 49. 95 p. 7 pl. N.1930.

Japanese.

Rev. Agr. Puerto Rico (San Juan)

Chardon, C. E.

Se ha producido una nueva variedad de caña. Que puede representar millones de dólares para esta industria. Rev. Agr. Puerto Rico 26(7): 3, 31. Ja.1931. no.7.

P.R. 803.

Rev. Algol. (Paris)

Allorge, P.

La Pleodorina illinoisensis Kofoid dans le plancton de la Seine. Rev. Algol. 5: 436-438. Ja.30, 1931. no.3/4.

Allorge, V. & Allorge, P.

Hétérocontes, euchlorophycées et conjuguées de Galice. Rev. Algol. 5: 327-378. pl. 17-32. Ja.30, 1931. no.3/4.

Matériaux pour la flore des algues d'eau douce de la Péninsule Ibérique I.

Chemin, E.

Sur la présence de galles chez quelques floridées. Rev. Algol. 5: 315-325. illus., pl.16. Ja.30,1931. no.3/4.

Deflandre, G.

Sur deux chlorophycées nouvelles pour la flore francaise. Rev. Algol. 5: 433-435. illus. Je.30, 1931. no.3/4.

Sphaeroplea wilmani, S. cambrica.

Feldmann, J.

Le Ctenosiphonia hypnoides (Welv.) Schmitz sur la côte Basque. Rev. Algol. 5: 431-432. Ja.30, 1931. no.3/4.

Hamel, G.

L'alternance des génerations chez les algues. Rev. Algol. 5: 435-436. Ja.30, 1931. no.3/4.

Hamel, G.

Chlorophycées des côtes françaises. (cont.) Rev. Algol. 5: 381-430. illus. Ja.30, 1931. no.3/4.

Taylor, W. R.

A synopsis of the marine algae of Brazil. Rev. Algol. 5: 279-311. Ja.30, 1931. no.3/4.

Rev. Bot. Appl. (Paris)

Chevalier, A.
Sur une mauvaise herbe de Tahiti. Rev. Bot. Appl. 11: 119-120. 1931. no.114.
Elephantopus spicatus.

Joly, R. L.
Les conséquences de la mosaique du manioc. Rev. Bot. Appl. 11: 99-104. F.1931. no.114.

Pinauldt, R.
Note sur la culture du bananier en Guinée. Rev. Bot. Appl. 11: 65-70. illus. F.1931. no.114.

Rev. Hort. (Paris)

Bertola, M.
Aide-mémoire horticole. Les noms des plantes. Rev. Hort. 103: 332-334. F.16, 1931. no.14.

Guillaumin, A.
Les cactées. Comment les reconnaitre. Rev. Hort. 103: 339-341. F.16, 1931. no.14.

Rev. Inst. Agr. d'Oka.

Documentation botanique. Exploration systématique des mauvaises herbes et autres plantes indigenes du Quebec. (cont.) Rev. Inst. Agr. d'Oka 5: 72-74. Mr./Ap. 1931. no.2.

Schweiz. Zeitschr. Forstw. (Bern)

Roth, C.
Beobachtungen über die erkrankung von weisstannenpflanzen in näturlichen verjüngungen. Schweiz. Zeitschr. Forstw. 82: 87-88. illus. Mr. 1931. no.3.

Schweiz. Zeitschr. Obst- u. Weinb. (Wädenswil)

Osterwalder, A.
Erfahrungen im sommer 1930 bei bekämpfung des apfelschorfs und der schrotschusskrankheit der steinobstbäume. Schweiz. Zeitschr. Obst- u. Weinb. 40: 93-105. illus. Mr.4, 1931. no.5/6.

Staehelin, M.
Der schorfbefall des lagerobstes. Schweiz. Zeitschr. Obst- u. Weinb. 40: 113-116. Mr.4,1931. no.5/6.

chweiz. Zeitschr. Obst- u. Weinb. (cont.)
Wiesmann, R.
Untersuchungen über apfel- und birnschorpilz. Schweiz. Zeitschr. Obst- u. Weinb. 40: 105-113. illus. Mr.4, 1931. no.5/6.

cience (Lancaster)
Deuber, C. G.
Chemical treatments to shorten the rest period of tree seeds Science 73: 320-321. Mr.20, 1931. no.1890.

Jones, A. T.
Trees with twisted bark. Science 73: 341. Mr.27, 1931. no.1891.

Rhoades, M. M.
Cytoplasmic inheritance of male sterility in Zea mays. Science 73: 340-341. Mr.27, 1931. no.1891.

cience News Letter
Giant "sacred lily of Africa" makes vegetable gas attack. Botany students are driven from laboratory while odor calls afar for carrion flies. Science News Letter 19: 183. illus. Mr.21, 1931. no.519.
? Amorphophallus.

cient. Month. (Lancaster, Pa.)
Swingle, C. F.
Plant hunting in Madagascar. Scient. Month. 32: 322-345. illus. Ap.1931. no.4.

ci. Papers Inst. Phys. & Chem. Res. (Tokyo)
Nakamura, N. & Ichiba, A.
On the isolation of phytosteroline from wheat embryo. Sci. Papers Inst. Phys. & Chem. Res. (Tikyo) 15: 137-141. F.28, 1931. no.289/291.
English version of article in Japanese in Bulletin of the Institute.

oil Sci. (Baltimore)
Pierre, W. H.
Hydrogen-ion concentration, aluminum concentration in the soil solution, and percentage base saturation as factors affecting plant growth on acid soils. Soil Sci. 31: 183-207. Mr. 1931. no.3.

So. African Gard. (Johannesburg)

Bolus, L.
Plants - New or noteworthy. Cotyledon fergusoniae, L. Bolus, new species or new hybrid (cont.) So. African Gard. 21: 51, 55. F.1931. no.2.

Bolus, L.
Wide-mouthed heath (Erica vestita, Thunb.) So. African Gard. 21: 38. col.pl. F.1931. no.2.

Marloth, R.
Kukumakranka (Gethyllis) So. African Gard. 21: 40-41. illus. F.1931. no.2.
G. lanuginosa, G. setosa, G. verrucosa n.spp.

Succulenta (Leeuwarden)

Hummelinck, P.
Over het gebruik van cactussen op Bonaire. Succulenta 13: 41-51. illus. Mr. 1931. no.3.

Tischer, A.
Conophytum, N.E.Br. Nieuwe soorten, nieuwe vindplaatsen, bloemen. Succulenta 13: 51-54. illus. Mr. 1931. no.3.
Conophytum apertum, C. circumpunctatum, n.spp.

Svensk Bot. Tidskr.

Arvid Lorentz Segerström. Svensk Bot. Tidskr. 24: 573-574. port. 1930. no.4.

Du Rietz, G. E.
Classification and nomenclature of vegetation. Svensk Bot. Tidskr. 24: 489-503. 1930. no.4.

Du Rietz, G. E.
On domatia in the genus Nothofagus. Svensk Bot. Tidskr. 24: 504-510. illus. 1930. no.4.

Lange, T.
Om Humulus lupulus L. i Jämtland. Svensk Bot. Tidskr. 24: 531-535. 1930. no.4.

Lohammar, G.
Några märkligare växtfynd. Svensk Bot. Tidskr. 24: 560-556. 1930. no.4.

Svensk.Bot. Tidskr.(cont.)

Palm, B.
Pinus and Boletus in the tropics. Svensk Bot. Tidskr. 24: 519-523. illus. 1930. no.4.

Romell, L.-G.
Blodriskan, en granens följesvamp. Svensk Bot. Tidskr. 24: 524-530. 1930. no.4.
German summary: p.530 (Der echte reizker, ein fichtenbegleiter)

Simmons, H. G.
Till kannedomen om invandringen av Beta maritima L. vid sveriges västkust. Svensk Bot. Tidskr. 24: 536-559. 1930. no.4.
German summary: p.559.

Turesson, G.
Genecological units and their classificatory value. Svensk Bot. Tidskr. 24: 511-518. 1930. no.4.

Sveriges Pomol. För. Årsskr.

Dahl, C. G.
Ostrenskivling som parasit på äppelträd. Sveriges Pomol. För. Årsskr. 32: 58-59. illus. 1931. no.1.
Pleurotus ostreatus.

Johansson, E.
Besprutningsförsök mot skorv och fruktträdskvalster vid Alnarp 1930. Sveriges Pomol. För. Årsskr. 32: 35-44. 1931. no.1.

Johansson, E.
Blombiologiska försök med fruktträd vid Alnarp 1926-1930. Sveriges Pomol. För Årsskr. 32: 1-34. 1931. no.1.

Tea Quart. Tea Res. Inst. Ceylon.

Gadd, C. H.
The Armillaria root disease of tea. Tea Quart. Tea Res. Inst. Ceylon 3: 109-113. pl.i-ii. N.1930. no.4.

Trop. Agr. (Ceylon) (Peradeniya)
Murray, R.K.S.
Report on sulphur dusting experiments on Gonakelle estate. Trop. Agr. (Ceylon) 76: 13-17. Ja.1931. no.1.
Control of rubber mildew.

Sylva, K.J.A.
Cypripedium insigne. Lady's slipper orchid or shoe of Venus. Trop. Agr. (Ceylon) 76: 3. pl. Ja.1931.

U.S. Dept. Agr. Off. Rec.
Synthetic compost for growing mushrooms developed by B.P.I. U.S. Dept. Agr. Off. Rec. 10: 91. Mr.14, 1931. no.11.
Work of E.B. Lambert.

Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) (Charkiv)
Eremenko, V.
Do potannia pro mekhanizm peresuvannia plastichnikh rechovin u soiashnikovi (Zur frage von dem mechanismus der fortbewegung der plastischen stoffe bei der sonnenblume). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 33-46. illus. no.2.
Ukrainian with German summary.

Kamens'ka, T.
Do nitanniia pro fizioloichni umovi nakupchennia atropinu v listi Atropa belladonna (Zur frage von den physiologischen bedingungen der aufspeicherung von atropin in den blattern (!) den Atropa belladonna). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 129-142. no.3/4.
Ukrainain.

Kiiashko, P.
Vpliv niz'kikh temperatur na utvorennia kvitkovikh strilok u tsukrovogo buriaka (Der einfluss niedriger temperaturen auf die entstehung der blutenkeime bei der zuckerrube). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 43-46. no.3/4.
Ukrainian.

Kuz'menko, A.
Pro viliagannia ozimini ta sposobi borot'bi z ni (Das lagern des wintergetreides und die kampfmittel dagegen). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 8-22. illus. no.2.
Ukrainian with German summary.

Visnki Prikl. Bot. (Zeitschr. Angew. Bot.) (cont.)

Levits'ka, V.
Do pitannia pro kontsentratsiiu vodnevikh ioniv u iarikh pshenits v rizni periodi ikh beketatsii (Zur frage von der konzentration der wasserstoffionen bei der sommerwizen sorten in den verschiedenen perioden ihrer vegetation) Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 71-76. no.2.
Ukrainian with German summary.

Prikhod'ko, M.
Do pitannia pro fiziologiiu okremikh tkanin roslini (Zur frage von der physiologie einzelner gewebe der pflanzen) (Physiologische eigentümlichkeiten der schwammigen und palisaden gewebe des blattes). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 47-56. illus. no.3/4.
Ukrainian with German summary.

Protsenko, D.
Zhittezdatnist pilochku grechki za eiznikh umov bogkosti (Die lebensfähigkeit des buchweizenpollens bei verschiedenen feuchtigkeitsbedingungen) Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 72-76. no.3/4.
Ukrainian.

Rotmistrov, M.
Do pitannia fiziologichni mezhi nakupchennia Tsukru v korinni tsukrovikh buriakiv (Zur frage von den physiologischen grenzen der zuckeransammlung in den wurzeln der zuckerrübe). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 59-62. illus. no.2.
Ukrainian with extremely brief German summary.

Vetukhova, A.
Upliv niz'kikh temperatur na fiziologichni protsesi u riznikh sortiv ozimoi pshenitsi (Der einfluss niedriger temperaturen auf die physiologischen prozesse bei den verschiedenen sorten des winterweizens). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 23-42. no.3/4.
Ukrainian.

Voloshinova, B.
Do pitannia pro rak abo bolastist korinnia obochevikh derev ta zasobi borot'bi z neiu (Zur frage vom krebs oder von den kropfartigen bildungen an den wurzeln der obstbäume und den mitteln zu ihrer bekämpfung) Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 77-90. illus. no.3/4.
Ukrainian.

Wisconsin Hort. (Madison)
Thompson, N. F.
Treating gladiolus corms may not control disease. Wisconsin Hort. 21: 181-182. illus. Mr.1931. no.7.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)
Bleier, H.
Untersuchungen über die sterilität der kartoffel. Wiss. Arch. Landw. Abt. A. Pflanzenbau 5: 545-560. illus., pl.1. F.19, 1931. no.3.

Kleinau, E.
Untersuchungen über die veränderungen des korns verschiedener roggensorten unter dem einfluss von boden, temperature, niederschlägen und sorte. II. Wiss. Arch. Landw. Abt.A. Pflanzenbau 5: 411-450. F.19, 1931. no.3.

Rathlef, H. von
Materialien zur kenntnis des reifen pollenkornes der kartoffel. Wiss. Arch. Landw. Abt.A. Pflanzenbau 5: 486-544. F.19, 1931. no.3.

Zeitschr. Gesamte Getreidew. (Berlin)
Strilciuc, D.
Beitrag zur mikrophotographie der getreidearten einschliesslich mais, hirse, buchweizen sowie der leguminosen VII-IX (schluss). Zeitschr. Gesamte Getreidew. 17: 254-255. 4 pl. on 2. D.1930. no.12.
Hirse, buchweizen, leguminosen.

Zeitschr. Obst- Wein- u. Gartenb. (Dresden)
Rudolph, F.
Die pfirsichzucht als gewinnreichste erwerbsquelle des gartenbaus. Zeitschr. Obst- Wein- u. Gartenb. 57: 37-45. illus. Mr.1931. no.3.

Zeitschr. Pflanzenkr. (Stuttgart)
Babel, A.
Normierung von pflanzenschutzmitteln. Zeitschr. Pflanzenkr. 41: 19-22. Ja.1931. no.1.

Ernst,
Zur entstehung von kiefern-buschbildung. Zeitschr. Pflanzenkr. 41: 107-115. illus. 1931. no.3.

Zeitschr. Pflanzenkr. (cont.)

Kotte, W.
Zur kenntnis der "fettfleckenkrankheit" der bohne. Zeitschr. Pflanzenkr. 41: 12-19. Ja. 1931. no.1.
Phytomonas i.e. Bacterium medicaginis var. phaseolicola.

Tubeuf, K. von.
Die illustration. Was der autor wissen soll. Zeitschr. Pflanzenkr. 41: 62-68. F.1931. no.2.

Tubeuf, K. von
Der praktische fall in der pathologie. Zeitschr. Pflanzenkr. 41: 115-127. illus. Mr.1931. no.3.

Zentralbl. Bakt. Abt.I.. (Jena)

Ács, L.
Ueber die mitogenetische strahlung der bakterien. Zentralbl. Bakt. Abt.I. 120: 116-124. illus. F.23, 1931. no.1/2.

Der Züchter (Berlin)

Heermann, W.
Die züchtung einer kulturheidelbeere. Der Züchter 3: 38-44. illus. F.1931. no.2.

Schratz, E.
Einfluss künstlicher beleuchtung auf höhere pflanzen (Sammelreferat). Der Züchter 3: 45-57. illus. F.1931. no.2.

Sengbusch, R.v.
Die züchtung von nicotinfreiem und nicotinarmem tabak. Der Züchter 3: 33-38. F.1931. no.2.

Snell, K.
Die "erläuterungen" zum amerikanischen pflanzenpatentgesetz. Der Züchter 3: 58-60. F. 1931. no.2.

Exper. Stat. Publ.

Miller, P.A. & Barrett, J.T.
Cantaloupe powdery mildew in the Imperial Valley. California Agr. Exp. Sta. Bull. 507. 36 p. illus. F.1931 (Rec'd Mr.)

Exper. Stat. Publ. (cont.)

Vickery, H.B. & Pucher, G.W.
Chemical investigations of the tobacco plant. I-II. Conn. Agr. Exp. Stat. Bull. 323: 155-202; 324: 207-240. Ja. 1931.
I. A preliminary study of the non-volatile organic acids of tobacco leaves. II. The chemical changes that occur during the curing of Connecticut shade-grown tobacco.

Hansen, A. A.
Indiana plants injurious to livestock. Indiana Agr. Exp. Stat. Circ. 175. 38 p. illus. Jl.1930 (Rec'd Mr. 1931)

Melhus, I. E., Wilson, J. J. & Layton, D. V.
Three new wilt-resistant watermelons. Iowa Agr. Exp. Stat. Circ. 125. 4 p. illus. F.1931 (Rec'd Mr.)
Pride of muscatine, Iowa king, Iowa belle.

Baxter, D. V. & Strong, F. C.
Chestnut blight in Michigan. Michigan Agr. Exp. Stat. Circ. Bull. 135. 18 p. incl. 8 pl. on 7. F.1931.

Churchill, B. R.
Investigations with oat varieties and diseases in the Upper Peninsula. Michigan Agr. Exp. Stat. Spec. Bull. 213. 15 p. illus. F.1931.

Miles, L.E.
Annual report of the Dept. of plant pathology. Ann. Rep. Mississippi Agr. Exp. Stat. 42(1928/9): 22-27. [1930?] (Rec'd Mr. 1931)

New Jersey agricultural experiment station - Dept. of plant pathology.
The adhesiveness of sulfur sprays and dusts. Its Nursery Dis. Notes. v.3, no.9. 5 p. Mr. 1931.

Clayton, E. E.
Cucumber disease investigations on Long Island. New York Agr. Exp. Stat. Bull. 590. 80 p. illus. Ja. 1931 (Rec'd Mr. 1931)

Horsfall, J. G.
Damping-off of tomatoes combated by seed treatment with copper compounds. New York Agr. Exp. Stat. Circ. 120. 4 p. illus. F.1, 1931.

Exper. Stat. Publ. (cont.)

Jones, L. K.
The treatment of pea seed with chemical materials. New York Agr. Exp. Stat. Circ. 118. 3 p. F.1, 1931.

Nebel, B. R.
Xenia and metaxenia in apples. New York Agr. Exp. Stat. Tech. Bull. 170. 16 p. D.1930. (Mr.1931)

Stewart, F. C. & Glasgow, H.
Aphids as vectors of leafroll among sprouting potato tubers. New York Agr. Exp. Stat. Tech. Bull. 171. 21 p. illus. D.1930 (Rec'd Mr.1931)

New York state agricultural experiment station.
[Report of] division of botany. In its Ann. Rept. 49(1929/30): 40-50. 1931.
F. C. Stewart, M. T. Munn chiefs.

Cross, F. B.
Oil spray reduces water loss. Rep. Oklahoma Agr. Exp. Stat. 1926-30 (Research leads to farm progress): 227-228. illus. [1931?]
Loss of water from leaves may be cut down enough to help trees resist dry weather, without injury to plant.

Rolfs, F. M.
Pathologists champion disease control. Rep. Oklahoma Agr. Exp. Stat. 1926-30 (Research leads to farm progress): 283-292. [1931?]
Bacterial wilt of alfalfa, nematode attacks alfalfa stems, blotch limits apple production.

South Carolina agricultural experiment station
Botanical and bacteriological research. In its Ann. Rep. 43 (1929/30): 39-46. D.1930.
G. M. Armstrong, botanist & pathologist.
A study of the factors which influence the growth and development of cotton buds and bolls. - Germination of cotton seed and growth of the seedlings at low temperature - A study of the length and structure of cotton fibres - Plant disease survey.

Exper. Stat. Publ. (cont.)

McClintock, J. A. & Fackler, H. L.
Canker treatment for fire-blight control. Tennessee Agr. Exp. Stat. Cir. 36 [4] p. illus. Mr.1931.

Sherbakoff, C. D.
Plant pathology. Ann. Rep. Tenn. Agr. Exp. Stat. 42 (1929): 40-42. 1930.

Johnson, J., Murwin, H. F. & Ogden, W. B.
The germination of tobacco seed. Wisconsin Agr. Exp. Stat. Res. Bull. 104. 15 p. 4 pl. on 2. D.1930 (Rec'd Mr. 1931)

State Publications.

Glenn, P. A.
Plant inspection. Ann. Rep. Dept. Agr. Illinois 13 (1929/30): 52-62. illus., pl. 1930.

New Books

Baudys, E.
Zpráva o činnosti sekce fytopathologické v roce 1928. Praha, 1930.
At head of title: Mor. zem. zýzkummý ústav zemědělský v Brně. Sekce fytopatgologická.

Bonne, G.
Recherches sur le pédicelle et la fleur des rosacées. Paris, Jouve & Cie, 1928.

Bonnier, G.
Flore complète illustrée en couleurs de France ... Suisse et Belgique ... v.11. par R. Douin. fasc. 106 (Carex) Paris, [1931]

Chevalier, A.
Étude sur la forêt et les bois du Cameroun. Paris, Libraire Larose, 1930.

New Books (cont.)

Ducellier, L.
Espèces et variétés de céréales cultivées en Algérie. Alger, Acienne imprimerie administrative, V. Heintz, 1930.

Geilter, L.
Cyanophyceae (blaualgen) Leipzig, 1931. (Dr. Rabenhorst's Kryptogamen-flora von Deutschland, Oesterreich und der Schweiz. Hrsg. von Dr. Kolkwitz. 14 bd., lfg.2)

Gt. Brit. Ministry of agriculture and fisheries - Dept of agriculture for Scotland and Ministry of agriculture for northern Ireland.
Entomology and pathology. In its Reports on the work of agricultural research institutes... 1928/29: 39-89. 1930.

Hannig, E. & Winkler, H., eds.
Die pflanzenareale. 3. reihe, h.1. Jena, G. Fischer, 1931.
Sarraceniaceae, J.C.T. Uphof - Fouquieraceae, Larrea tridentata, Carnegiea, gigantea, F. Shreve - Aureolaria, F. W. Pennell.

Lecomte, H.
Flore générale de l'Indo-chine. v.4, fasc.5. Ag. 1930.
Orobanchées (fin.) par F. Pellegrin; lentibulariacées, gesneracées, par.F. Pellegrin; bignoniacées, par. P. Dop; pédalinacées, par. F. Gagnepain.

Seattle public library - Technology div.
Bibliography on soy beans. [Seattle], Mr. 30, 1930.
Typewritten.

Reprints from Journals not yet rec'd or not available.

Archbold, H. K.
Ripening processes in the apple. Mem. Food Invest. Bd. Gt. Brit. no.145. 1931. (Reprinted from Rep. & Proc. Intern. Hort. Congr. 9th, London, 1930, p.374-379.)

Translations filed in Library of Bur. of Plant Industry.

Sagot, P. & Raoul, E.

Végétaux fournissant du sucre dit de canne (saccharose) (Plants that produce the so-called cane-sugar) (Saccharose). In their Manuel pratique des cultural tropicales...Paris, 1893. p.317-361.

Correction.

Vol. 13, no.4, p.31.

Under the fourth and last three entries no. 2. should read no.4.

Vol. 13, no.5, p. 8.

Bull. Soc. Chim. France should be Bull. Soc. Chim. Biol.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no. 7. Mar. 30-Apr. 11, 1931.

Addisonia (N.Y.)

Addisonia v. 15, col. pl. 505-512. D.1930.
No.4.

Viola "apricot" pl. 505; Clintonia borealis, pl. 506; Erysimum linifolium pl. 507; Cheiranthus allionii, pl. 508; Pueraria thunbergiana , pl. 509; Poncirus trifoliata, pl. 510; Pinguicula Jackii, pl. 511; Gilia rubra, pl. 512.

Agr. Libr. Notes U. S. Dept Agr.

Newman, M. R.
Plant patents: a brief historical survey with references. Agr. Libr. Notes U.S. Dept. Agr. 6: 35-42. F.1931. no.2.

Amer. Fern Journ.

Anderson, W.A. jr.
A list of Tennessee ferns. (cont.) Amer. Fern Journ. 21: 11-20. Ja/Mr. 1931. no. 1.

Dole, W. H.
Notes on a New Jersey fern garden - 1. Amer. Fern Journ. 21: 1-10, incl. 3. pl. Ja/Mr. 1931. no. 1.

Fireworks from a "fern". Amer. Fern Journ. 21: 26-27. Ja./Mr. 1931. no. 1.
Species of Lycopodium.

Graves, E. W.
Botrychium dissectum from Minnesota. Amer. Fern Journ. 21: 21-24. Ja./Mr. 1931. no. 1

Weatherby, C. A.
An island variety of Cheilanthes peninsularis. Amer. Fern Journ. 21: 25-26. Ja./Mr. 1931. no. 1.
Cheilanthes peninsularis insularis var. nov. from Revillagigedo Islands (Socorro Isl.)

What ferns may be weeds? Amer. Fern Journ. 21: 27-28. Ja./Mr. 1931. no. 1.

Amer. Journ. Pharm. (Philadelphia)

LaWall, C. H.
Dr. Henry Leffmann. Life story. Amer. Journ. Pharm. 103; 113-117. port. Mr. 1931. no. 3.
See also appreciation by Ivor Griffith: p. 113-119.

Starker, T. J. & Wilcox, A.R.
Cascara (concl.) Amer. Journ. Pharm. 103: 147-175. illus. Mr. 1931. no. 3.

Angew. Bot (Berlin)

Dounine, M.S. & Mjasdrikowa, M. N.
Zur frage der bestimmung des wasserminimung für die samenkeimung. Angew Bot. 13: 49-81. Ja./F 1931. no. 1.

Krüger, L.
Ein beitrag zur biologie von Chenopodium album. Bedeutung und bekampfung als landwirtschaftliches unkraut. Angew. Bot. 13: 1-49. illus. Ja./F. 1931. no. 1.

Morstatt, H.
Der gegenwartige stand unserer Kenntnis der degeneration. Angew. Bot. 13: 81-83. Ja./F. 1931. no. 1.

Rave, L.
Die kleinlichtbildkunst im dienste der erforschung der pflanzenhrankheiten and pflanzenzucht. Angew. Bot. 13: 83-86. Ja./F. 1931. no. 1.

Ann. Tech. Agr. (Rome)

Azzi, G.
Effetto della temperatura sulla formazione, sviluppo e maturazione della cariosside. Ann. Tech. Agr. (Rome) 4: 220-232. Mr. 1, 1931. no. 2.

Briccoli, M.
Determinazione del grado di produttività, dei gradi di resistenza e della rusticità dei frumenti. Ann. Tech. Agr. (Rome) 4: 181-192, incl. 3 pl. illus. Mr. 1, 1931. no.2.

Ann. Tech. Agr. (Rome) (cont.)

Briccoli, M.
I fenomeni della fotoperiodicità e il frumento
Ann. Tech. Agr. (Rome) 4: 209-212. Mr.1, 1931, no.2.

Casella, D.
La moltiplicazione delle Vitis berlandieri.
Ann. Tech. Agr. (Rome) 4: 136-163. illus. Mr. 1, 1931. no.2.

Heuser, W.
Effetto dei fattori meteorologici sulla struttura delle foglie. Ann. Tech. Agr. (Rome) 4: 213-216. Mr. 1,1931, no.2.

Miliani, R.
La germinabilita del frumento e la condizioni meteorologiche durante la granigione. Ann. Tech. Agr. (Rome) 4: 204-208. Mr. 1, 1931. no.2.

Ark. Bot. (Stockholm)

Eriksson, J.
Phytopathologische mitteilungen. II. 5. Das fortwachsen des sporidienschlauches von Puccinia malvacearum Mont. im inokulierten stockrosenblatte. 6. Das überwintern von Puccinia ribis DC. in vegetativem stadium in den winterknospen der wirtspflanze. Ark. Bot. v.23A, no.7. 18 p. illus., 6 pl. 1931 (Ag. 11, 1930) no. 3.

Erlandsson, S.
Marine diatoms collected by the Swedish Kamtchatka-expedition 1920-1922. Ark. Bot. v. 23A, no. 8, 10 p. illus 1931 (Aug. 7, 1930)

Heilborn, O.
On some species of Tropaeolum from Ecuador.
Ark. Bot. v.23A, no.9, 10 p. illus. 1931(S.2,1930).

Heilborn, O.
Section fruticosae Eichl. of the genus Cleome L.
Ark. Bot. v.23A, no. 10, 19 p. illus. 1931(S.26,1930)

Urban, I.
Plantae haitienses et Domingenses novae vel rariores IX. a cl. E.L. Ekman 1924-1930 lectae.
Ark. Bot. v.23A, no.11. 103 p. 5 pl. 1931(Mr.4, 1931)

Beitr. Biol. Pflanz. Cohn. (Breslau)

Gebauer, H.
Zur kenntnis der kultur von Polytoma uvella. Beitr. Biol. Pflanz. Cohn. 18: 445-462. illus. 1930. no. 3.

Niethammer, A.
Lokalisation einzelner glykoside, sowie des phlorogluzins, unter berucksichtigung benachbarter kalkoxalatausscheidungen in der pflanzenzelle. Beitr. Biol. Pflanz. Cohn 18: 335-344. illus. 1930. no.3.

Schulz-Gaebel, H.H.
Entwicklungsgeschichtlich-zytologische studien an der umbelliferen-unterfamilie der apioideen. Beitr. Biol. Pflanz. Cohn 18: 345-398. illus. 1930. no3.

Vrede, H.
Ueber den mechanismus und die bedeutung des einrollens der blätter einiger dünengraser. Beitr. Biol. Pflanz. Cohn 18: 399-444. illus. 1930. no.3.

Beretn. Landbofor. Virks. Planteavl. Sjaelland. (København)

Olsen, H. K.
Forsøg og undersøgelser vedrørende kemiske midler til bekaempelse af plantesygdomme. Beretn. Landbofor. Virks. Planteavl. Sjaelland 1930: 297-303. 1931.

Bergcultures (Batavia, Java)

Gandrup, J.
Over het wortelstelsel van hevea. Bergcultures 5: 225-227. illus. F.28,1931. no.9.

Keuchenius, A.A.M.N.
Overzicht der ziekten en plagen op koffie op ondernemingen in Zuid- en West-Sumatra over het jaar 1930. Bergcultures 5: 203-204. F.21,1931. no.8.

Ber. Deut. Bot. Ges. (Berlin)

Hayata, B.
Neue keiltheorie zur erklärung der konstruktion der polyzyklischen stelen. Ber. Deut. Bot. Ges. 49: 9-20. pl. i-iv. F.26, 1931. no. 1.
Vorläufige notizen über denselben gegenstand sind in der zeitschrift Botanical magazine (Tokyo) bd. 43, s.340-354 japanisch veroffentlicht worden.

Jahn, E.
Myxomycetenstudien. 13, Die stielbildung bei den sporangion der gattung Comatricha. Ber. Deut. Bot. Ges. 49: 77-82. pl. v. F. 26, 1931. no.1.

Koppe, F.
Beobachtungen uber frostschaden an moosen 1927-1930. Ber. Deut. Bot. Ges. 49: 35-51. F.26, 1931. no.1.
Mosses and hepatics.

Linsbauer, K.
Histologische notizen I.A. Panaschierte opuntien. B. Ueber einige spaltoffnungsanomalien. Ber. Deut. Bot. Ges. 49: 64-76. illus. F.26,1931. no.1.

Muhldorf, A.
Ueber die feinere struktur des bewegungsapparates bei den lebermoosspermien. Ber. Deut. Bot. Ges. 49: 21-28. illus. F.26,1931. no.1.

Rimbach, A.
Lebensweise von Haylockia pusilla. Ber. Deut. Bot. Ges. 49: 61-64. illus. F.26, 1931. no.1.

Stomps, T.J.
Ueber das auftreten von Mutinus elegans in Europa sowie von Clathrus treubii auf Sumatra. Ber. Deut. Bot. Ges. 49: 52-60. illus. F. 26,1931. no.1.

Weberbauer, A.
Ueber die polsterpflanze pycnophyllum aristatum und die polsterpflanzen im allgemeinen. Ber. Deut. Bot. Ges. 49: 29-34. F.26,1931. no.1.

Biochem. Zeitschr. (Berlin)
Niethammer, A.
Biochemische studien im zusammenhange mit frühtreibeproblemen. Biochem. Zeitschr. 232: 146-155. Mr. 2,1931. no.1/3.

Biol. Zentralbl. (Leipzig)
Michaelis, P.
Zur kenntnis einiger Digitalis-bastarde. Biol. Zentralbl. 51: 124-134. illus. 1931. no.3.

Bol. Agr. Nicaragua.
Eddins, A.H.
Las principales enfermedades del maiz. Bol. Agr. Nicaragua 2: 10-19. Ja.,1931. no.38.

Bol. R. Soc. Españ. Hist. Nat. (Madrid)
Guinea, E.
Notas sobre macromicetos de España. Bol. R. Soc. Españ. Hist. Nat. 30: 509-514. D.1930. no.10.

Bot. Jahrb. Engl. (Leipzig)
Bojko, H.
Der wald in Langenthal (Val lungo). Eine pflanzensoziologische studie aus den Dolomiten. Bot. Jahrb. Engl. 64: 48-144. illus. F.15,1931. no.1.

Kozo-Poljanski, B.M.
Androsace villosa L. als mitglied der mittelrussischen flora und einige fragen ihrer geschichte. Bot. Jahrb. Engl. 64: 17-47. illus. pl. i-iii. (maps) F.15,1931. no.1.

Schwickerath, M.F.
Die gruppenabundanz, ein beitrag zur begriffsbildung der pflanzensoziologie. Bot. Jahrb. Engl. 64: 1-16. illus. F.15, 1931. no.1.

Bot. Not. (Lund, Sweden)
Du Rietz, G.E.D.
Studier över vindriften pa snöfalt i de skandinaviska fjällen. Ett bidrag till de nordiska fjäll-lavarnas spridningsbiologi. Bot. Not. 1931: 31-44. 1931. no.1/2.
English summary.

Bot. Not. (cont.)

Engeström, T. & Erhardt, R.
Om Runmarös orchideer. Bot. Not. 1931: 45-50. 1931. no.1/2.

Gustafsson, A.
Sind die canina-rosen apomiktisch? Bot. Not. 1931: 21-30. 1931. no.1/2.

Hammarlund, C.
Smärre uppsatser och meddelanden. Kleinere mycologische notizen. I. Ustilago violacea (Pers) Fuck. auf Dianthus aronarius L. Bot. Not. 1931: 137-138. 1931. no.1/2.

Hasslow, O.J.
Sveriges characeer. Bot. Not. 1931: 63-136. 1931. no.1/2.

Lundin, P.E.
Nya hieraciumlokaler fran östra smaland. Bot. Not. 1931. 10-14. 1931. no.1/2.

Nilsson, F.
Die hybride Bromus hordeaceus L. Bromus mollis L. experimentell dargestellt. Bot. Not. 1931: 1-9. illus. 2 tab. 1931. no.1/2.

Stenar, H.
Die art der pollenbildung bei Narthecium ossifragum Huds. Bot. Not. 1931: 51-54. illus. 1931. no.1/2.

Sylven, N.
Bidrag till Skånes flora. 1. Nya fyndorter för några inom den spontana skånefloran sällsynta eller mindre allmänna arter. Bot. Not. 1931: 55-62. 1931. no. 1/2.

Sylvén, N.
Otto R. Holmberg. Bot. Not. 1931: 143-146. port. 1931. no.1/2.

Sylvén, N.
Thore C.E. Fries. Bot. Not. 1931: 139-142. port. 1931. no.1/2.

Bot. Not. (cont.)
Turesson, G.
Ueber verschiedene chromosomenzahlen in Allium schoenoprasum L. Bot. Not. 1931: 15-20. illus. 1931. no.1/2.

Botaniste (Paris)
Varitchak, B.
Contribution à l'etude du développment des ascomycètes. Botaniste 23. 142 p. illus., xx pl. F. 1931. no. 1/2.

Bryologist. (Pittsburg)
Cheney, L.S.
Wisconsin fossil mosses. Bryologist 33: 66-68. S.1930 (Rec'd Mr. 1931) no.5.

Raup, L.C.
The lichen flora of the Shelter Point region, Athabasca. Bryologist 33: 57-66. pl. vi-ix. S. 1930 (Rec'd Mr. 1931) no.5.

Sharp, A.J.
Extension of the ranges for three rare mosses. Bryologist. 33: 68. S.1930(Rec'd Mr. 1931) no.5.
Bryoxiphium norvegicum, Syrrhopodon texanus, Heterophyllium nemorosum in Tennessee.

Bull, Boston Soc. Nat. Hist. (Boston)
Smith, L.B.
Some common polypores of New England. Bull. Boston Soc. Nat. Hist. 59: 13-20. illus. Ap. 1931.

Bull, Hist. Appl. Phys. et Path.
Bachrach, E. & Pillet, D.
Etude des cendres des diatomées sans carpace. Bull. Hist. Appl. Phys. et Path. 8: 33-37. illus. F. 1931. no.2.

Bull, Misc. Inform. Kew. (London)
Airy-Shaw, H.K.
Lilium cordatum (Thunb.) Airy-Shaw, comb nov. Bull. Misc. Inform. Kew. 1931: 159-160. no.3.
Lilium cordatum (Hemerocallis)

Bull. Misc. Inform. Kew. (cont.)

Francis, W. D.
A raining or weeping tree in Australia. Bull. Misc. Inform. Kew. 1931: 156-157. no.3.
Glochidion ferdinandi.

Ignatz Urban. Bull. Misc. Inform. Kew. 1931: 157. no.3.

Introduction of Cinchona to India. Bull. Misc. Inform. Kew 1931: 113-117. no.3.

Macklin, E. D.
The Casuarina distyla complex. Bull. Misc. Inform. Kew 1931: 145-151. no.3.

Marsden-Jones, E. M. & Turrill, W. B.
Researches on Silene martima and S. vulgaris V. Bull. Misc. Inform. Kew 1931: 118-145. illus., pl. vi-ix. no.3.

Metcalfe, C. R.
The "Aerenchyma" of "Sesbania and Neptunia". Bull. Misc. Inform. Kew 1931: 151-154, incl. pl. no.3.

Smith, C. A.
Palmstruckia of the flora Capensis. Bull. Misc. Inform. Kew 1931: 154-156. no.3.
Thlaspeocarpa nom. nov., T. capensis (Palmstruckia capensis).

Thore C.E. Fries. Bull. Misc. Inform. Kew 1931: 158. no.3.

Bull. Soc. Chim. Biol. (Paris)

Cugnac, A.de.
Les glucides des graminées. Importance de fructo-holosides. Bull. Soc. Chim. Biol. 13:125-132. F.1931. no.2.

Citrus Riv. Camera Agrum. Messina

Sibilia, C.
Sul mal secco degli agrumi. Citrus Riv. Camera Agrum. Messina II, 17: 31-35. F.1931. no.2.

Compt. Rend. Acad. Sci. Paris.

Eichhorn, A. & Franquet, R.
Sur la caryocinèse somatique du Bolbostemma paniculatum Franquet. Compt. Rend. Acad. Sci. Paris 192: 761-763. illus. Mr.23,1931. no.12.

Hocquette, M. & Arsigny, L.
Sécrétion par le meristeme caulinaire de Cuscuta epithymum de substances nocives pour les tissus des hotes. Compt. Rend. Acad. Sci. Paris 192: 764-766. Mr.23, 1931. no.12.

Kalé,
Contribution à l'etude morphologique de la tige de Triticum vulgare Host. Compt. Rend. Acad. Sci. Paris 192: 693-695. Mr.16, 1931. no.11.

Compt. Rend. Soc. Biol. Paris

Gheorghiu, I.
Le cancer experimental des plantes et la theorie de Lakhovsky. Compt. Rend. Soc. Biol. Paris 106: 754-756. illus. Mr.13,1931. no.9.
Crown gall of Pelargonium zonatum.

Lenoir, M.
Etude vitale des cellules mères du pollen chez Lilium candidum L. Compt. Rend. Soc. Biol. Paris. 106: 813-814. Mr.20, 1931. no.10.

Lenoir, M.
Morphologie et rôle du fuseau achromatique pendant les phénomènes de cinèse. Compt. Rend. Soc. Biol. Paris 106: 815-817. Mr.20, 1931. no.10.
Lilium candidum.

Contr. Labor. Bot. Univ. Montreal.

Marie-Victorin, frère
Le genre Rorippa dans le Québec. Contr. Labor. Bot. Univ. Montreal no. 17. 17 p. illus. 1930.

Marie-Victorin, frère
Les variations laurentiennes du Populus tremuloides et du P. grandidentata. Contr. Labor. Bot. Univ. Montreal no. 16. 16 p. illus. 1930.

V.13, no.7, p.11.

Dansk Skovforen. Tidsskr. (København)

Larsen, C. S.

Professor Dr. phil. C.H. Ostenfeld. 3. August 1873- 16. Januar 1931. Dansk Skovforen. Tidsskr. 1931: 133-138. port. Mr.1931. no.3.

Desert (Pasadena)

Berger, A.

Kleinia, section II--Eukleinia. Desert (Pasadena) 2: 154. illus. Ap.1931. no.12.

Johansen, D. A.

The function of the cactus spine. A discussion from another viewpoint. Desert (Pasadena) 2: 153, 156. Ap.1931. no.12.

Deut. Landw. Presse (Berlin)

Goffart, H.

Nematodenkrankheit der rübe und des getreides. Deut. Landw. Presse 58: 165. col.pl. Mr.21, 1931. no.12.

Flora (Jena)

Bergdolt, E.

Ueber die blütenbiologie von Alyssum montanum und ihre zweckmässigkeitsdeutungen. Flora 125 (n.s.25): 217-231. illus. 1931. no.2.

Goebel, K.

Pteridologische notizen. 1. Campylogramme trollii n.sp. Flora 125(n.s.25): 281-288. illus. 1931. no.2.

Kranz, G.

Zur kenntnis der wechselnden blattform des efeus und ihrer ursachen. Flora 125(n.s.25): 289-320. illus. 1931. no.2.

Lloyd, F. E.

The range of structural and functional variation in the traps of Utricularia. Flora 125(n.s. 25): 260-276. illus. 1931. no.2.

Flora (cont.)

Orth, R.
Vergleichende untersuchungen über die luftkammerentwicklung der ricciaceen. Flora 125(n.s. 25): 232-259. illus. 1931. no.2.

Tobler, F.
Die entwicklung der primärblätter beim efeu II. Flora 125(n.s.25): 277-280. illus. 1931. no.2.

Flor. Rev. (Chicago)

Shull, C. A.
Effect of gas on rose plants. II. Flor. Rev. 67(1740): 21-22. illus. Ap.2, 1931.

De Fruitteelt (Arnheim)

Het sorteeren en verpakken van fruit in verband met de ziektebestrijding. De Fruitteelt 21: 34-42. Mr.1931. no.3.

Gard. Chron. (London)

Anderson, W. B.
A Sisyrichium new to Canada. Gard. Chron. III, 89:219. Mr.21, 1931. no.2308.
Olsynium inflatum.

Asiatic gentians. Gard. Chron. III, 89: 240. illus. Mr.28,1931. no.2309.
Notes on Mr. C.V.B. Marquand's "New Asiatic gentians".

Friend, H.
Horticulture in relation to commerce V-VI V.Dyes and dye plants. VI. Some notes on henna. Gard. Chron. III, 89:202, 241. Mr.14,28, 1931. no.2307,2309.

Johnson, A. T.
Rhododendron ririei. Gard. Chron. III, 89: 237. illus. Mr.28, 1931. no.2309.

Lawrence, W.
The high Atlas form of Narcissus bulbocodium. Gard. Chron. III, 89: 205. illus. Mr.14, 1931. no.2307.

Gard. Chron. (cont.)

Metcalfe, C. R.
The "shab" disease of lavender. Gard. Chron III, 89: 221-223. Mr.21, 1931. no.2308.

Redgrove, H. S.
The odour of musk. Gard. Chron. III, 89: 202-203. Mr. 14, 1931. no.2307.

Ward, F. K.
The Roosevelt expedition in French Indo-China. Gard. Chron. III, 89: 220-221. illus. Mr.21, 1931. no.2308.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 89: 201, 239. illus. Mr.14,28, 1931. no.2307, 2309.

Gartenfl. (Berlin)

Dageförde, K.
Die frage aller fragen. Gartenfl. 80: 79-82. illus. Mr. 1931.
Evolution of plants.

Schacht, W.
Eine seltene iris. Gartenfl. 80: 72-73. illus. Mr.1931.
Iris sofarana var. gwinneri.

Gartenbauwiss. (Berlin)

Kvarazkhelia, T.
Beitrage zur biologie des wurzelsystems der obstbäume. Gartenbauwiss. 4: 239-341. illus. Mr.18, 1931. no.4.

Minderhoud, A.
Untersuchungen über das betragen der honigbiene als blütenbestauberin. Gartenbauwiss. 4: 342-362. illus. Mr.18, 1931. no.4.

Genetica (The Hague)

Gaiser, L. O.
Ohromosome numbers in angiosperms. III. Genetica 12: 161-250. 1930. no.2/3.

Genetica (cont.)

Imai, Y.
Description of the genes found in Pharbitis nil. Genetica 12: 297-318. incl. pl.i-x. 1930. no. 2/3.

Lawrence, W.J.C.
Incompatibility in polyploids. Genetica 12: 269-296. 1930. no.2/3.

Tammes, T.
The use of symbols for indicating the history of individuals or groups of individuals in genetic investigations. Genetica 12: 145-150. 1930. no.2/3.

Hadar (Palestine Citrogr.) (Jaffa)

Katzprowsky, S.
The nature of the "new disease" of the sweet lime stock and its control. Hadar (Palestine Citrogr.) 4: 39-40. illus. F.1931. no.2.
Dehydration by drying winds.

Menchikovsky, F.
The soil and hydrological conditions of the Jordan Valley as causes of plant diseases. Hadar (Palestine Citrogr.) 4: 34-38. illus. F.1931. no. 2.

Hawaiian Plant. Rec. (Honolulu)

Carpenter, C. W.
Diseases of the avocado. Hawaiian Plant. Rec. 35:31-37. illus. Ja. 1931. no.1.
Bark canker, leaf spot and black spot of fruit - Avocado blotch - Avocado blast - Avocado scab, russet fruit, carapace.

Hilgardia (Berkeley, Cal.)

Parker, K.W. & Sampson, A.W.
Growth and yield of certain Gramineae as influenced by reduction of photosynthetic tissue. Hilgardia 5: 361-381. illus. Mr.1931. no.10.

Rudolph, B. A.
Verticillium hadromycosis. Hilgardia 5: 197-353. illus., 4pl. Mr.1931. no.9.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)

Bierich, R. & Rosenbohm, A.
Ueber cytochrom. Hoppe-Seyl. Zeitschr. Phys. Chem. 196:87-88. Mr.17, 1931. no.1/2.

Euler, H.v. & Nilsson, R.
Ueber eine leicht spaltbare phosphorsaureverbindung in der hefe. Hoppe-Seyl. Zeitschr. Phys. Chem. 195: 273-276. F.27, 1931. no.3/6.

Fink, H.
Beiträge zur methylenbläufärbung der hefezellen und studien über die permeabilität der hefezellmenbran. I- Hoppe-Seyl. Zeitschr. Phys. Chem. 195: 215-240. illus. pl.ii. F.27,1931. no.3/6.

Indian For. (Dehra Dun)

Champion, H. G.
Teak abnormalities. Indian For. 57: 103-107. pl.2-8. Mr.1, 1931. no.3.

Parker, R. N.
A little known Burmese bamboo. Indian For. 57: 108-110. Mr.1, 1931. no.3.
Gigantochloa kurzii.

Industr. & Engin. Chem. (Easton Pa.)

Foreman, E.L. & Englis, D. T.
Isolation and identification of a polysaccharide from southern yellow pine. Industr. & Engin. Chem. 23: 415-416. Ap.1931. no.4.
Arabinogalactan.

Harlow, W. M.
Contributions to the chemistry of the plant cell wall. V. Microscopy of acid-treated sawdust as an index to some of the differences in the physical properties of hardwood and softwood lignin. Industr. & Engin. Chem. 23: 419-421. illus. Ap.1931. no.4.

Intern. Bull. Plant Prot.

England and Wales: New or interesting phytopathological records for the year 1930. Intern. Bull. Plant Prot. 5: 22-23. F.1931. no.2.

Intern. Bull. Plant Prot. (cont.)

India. [Plant diseases]. Intern. Bull. Plant Prot. 5: 26. F.1931. no.2.

Infection of Setaria italica by Sclerospora graminicola on green foxtail and Everglade millet. A new host of Sclerospora graminicola var. andropogonis-sorghi. Downy mildew of the grape in the Bombay Presidency.

Switzerland: Potato wart disease in German Switzerland in 1929 and 1930. Intern. Bull. Plant Prot. 5: 26-27. F.1931. no.2.

Ital. Agr. (Milan)

Benincasa, M.

Il marciume radicale del tabacco. Ital. Agr. 68: 101-106. illus. F.1931. no.9.

Thielavia basicola.

Jahrb. Wiss. Bot. (Leipzig)

Deneke, H.

Ueber den einfluss bewegter luft auf die kohlensäureassimilation. Jahrb. Wiss. Bot. 74: 1-32. illus. 1931. no.1.

Nius, E.

Untersuchungen über den einfluss des interzellularvolumens und der öffnungsweite der stomata auf die luftwegigkeit der laubblätter. Jahrb. Wiss. Bot. 74: 33-126. illus. 1931. no.1.

Schratz, E.

Vergleichende untersuchungen über den wasserhaushalt von pflanzen im trockengebeite des südlichen Arizona. Jahrb. Wiss. Bot. 74: 153-290. illus. 1931. no.2.

Söding, H.

Wachstum und wanddehnbarkeit bei der haferkoleoptile. Jahrb. Wiss. Bot. 74: 127-151. 1931. no.1.

Walter, H.

Besitzen isosmotische lösungen stets die gleiche relative dampfspannung? (Eine entgegnung an ursprung und blum). Jahrb. Wiss. Bot. 74:291-296. illus. 1931. no.2.

Journ. Agr. Res. (Washington, D.C.)

Dillman, A. C.

The water requirement of certain crop plants and weeds in the northern Great Plains. Journ. Agr. Res. 42: 187-238. illus. F.15, 1931. (Rec'd Ap.11) no.4.

Miller, M. R.

The toxicity of Corydalis caseana. Journ. Agr. Res. 42: 239-243. F.15, 1931 (Rec'd Ap.11) no.4.

Journ. Amer. Chem. Soc.

Yanovsky, E. & Kingsbury, R. M.

New sources of inulin. Journ. Amer. Chem. Soc. 53: 1597-1601. Ap.1931. no.4.

~~Dahlia variabilis, Helianthus tuberosus, Cichorium intybus, Taraxacum officinale.~~

Quamasia quamash Allium cuttalii & Balsamorhiza sagittata

Journ. Dept. Agr. So. Australia (Adeliade)

Samuel, G.

Summary of plant disease records in South Australia for the two years ending June 30th, 1930. Journ. Dept. Agr. So. Austr. 34: 746. F.16,1931 no.7.

Journ. Dept. Agr. Victoria (Melbourne)

Miller, W. B.

Smut in oats. Dry pickling effective. Journ. Dept. Agr. Victoria 29: 86-89. illus. F.1931. no.2.

Journ. Ecol. (Cambridge, Engl.)

Brockmann-Jerosch, H.

Internationale vegetationskarte Europas und vorschläge für eine internationale farben- und zeichengebung. Journ. Ecol. 19: 103-114. F.1931. no.1.

Chesters, C. G. C.

On the peat deposits of Moine Mhor. Journ. Ecol. 19: 46-59. illus., maps. F.1931. no.1.

Erdtman, G.

The boreal hazel forests and the theory of pollen statistics. Journ. Ecol. 19: 158-163. illus.(maps) F.1931. no.1.

Journ. Ecol. (cont.)

Leach, W.
On the importance of some mosses as pioneers on unstable soils. Journ. Ecol. 19: 98-102. pl.viii-ix. F.1931. no.1.

Leach, W.
The vegetation of the Longmynd. Journ. Ecol. 19: 34-35. illus., pl. iv-v, map. F.1931. no.1.

Moore, E. J.
The ecology of the Ayreland of Bride, Isle of Man. Journ. Ecol. 19: 115-136. pl.x-xiii. F. 1931. no.1.

Phillips, J.
The biotic community. Journ. Ecol. 19: 1-24. F.1931. no.1.

Salisbury, E. J.
The standardisation of descriptions of plant communities. Journ. Ecol. 19: 177-189. F.1931. no.1.

Tansley, A. G.
Charles Edward Moss. Journ. Ecol. 19: 209-214. port. F.1931. no.1.

Wardlaw, C. W.
Observations on the dominance of pteridophytes on some St. Lucia soils. Journ. Ecol. 19: 60-63. pl.vi-vii. F.1931. no.1.

Watt, Alexander S.
Preliminary observations on Scottish beechwoods. Introduction and Pt. I- Journ. Ecol. 19: 137-157. illus. F.1931. no.1.

Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo.

Loo, T.
Studies on the absorption of ammonia and nitrate by the root of Zea mays-seedlings, in relation to the concentration and the actual acidity of culture solution. Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo 30: 1-118. pl.i. F.1931. no.1.

Journ. Hered. (Washington)
Morgan, W. P.
Flower forms in hybrid freesias. Journ. Hered. 21: 483-488, incl.4 pl. illus. D. 1930 (Rec'd Ap.1931) no.12.

Mumm, W.J. & Woodworth, C. M.
Heritable characters in maize. XXXVI. A factor for soft starch in Dent corn. Journ. Hered. 21: 503-505. illus. D.1930 (Rec'd Ap.1931) no.12.

Journ. Indian Chem. Soc. (Calcutta)
Dixit, S. C.
A note on the percentage of iodine in certain algae. Journ. Indian Chem. Soc. 7: 960. D.1930 (Rec'd Mr.1931) no.12.

Journ. Jamaica Agr. Soc. (Kingston)
Smith, E. E. V.
Experimental work on killing roots of bananas with chemicals. Journ. Jamaica Agr. Soc. 35: 118-119. Mr.1931. no.23.

Journ. Mysore Agr. & Exp. Union.
Venkatarayan, S. V.
The trunk-splitting disease of Areca palms. Journ. Mysore Agr. & Exp. Union 11: 140-143. 1 pl. 1930. no.3.

Journ. N.Y. Bot. Gard.
Small, J.K.
Altitudinal distribution of eastern American Iris. Journ. N.Y. Bot. Gard. 32: 49-66. illus. Mr.1931. no.375.

Journ. Sapporo Soc. Agr. & For.
Fukushi, T.
On the modes of transmission of the mosaic disease of tobacco. Journ. Sapporo Soc. Agr. & For. 22: 305-320. F.1931. no.102.
In Japanese with English abstract: p.319-320.

Journ. Washington Acad. Sci.
Leonard, E. C.
The genus Mendoncia in Peru. Journ. Washington Acad. Sci. 21: 144-152. Ap.4, 1931. no.7.

Journ. Washington Acad. Sci. (cont.)
Pittier, H.F.
Botanical notes on, and descriptions of, new and old species of Venezualan plants -- IV. Berberis in Venezuala, new species of Oxalis, Exogonium and others. Journ. Washington Acad. Sci. 21: 134-143. Ap.4,1931. no.7.

Kosmos (Stuttgart)
Dangers, R.
Was man von blütenkätzchen und kätzchenblühern wissen muss. Kosmos 28: 139-143. illus. Ap. 1931. no.4.

Lesnická Práce (L'oeuvre For.) (Fisek, Moravia)
Ille, R.
Zjadernění bukových lesů východní části Republicky (Frostkernbildung in den buchenwaldungen im osten der Republik). Lesnická Práce (L'ouevre For.) 10: 34-41. illus. 1931. no.1/2.
Czechoslovakian, German summary: p.41.

Madras Agr. Journ.
Thomas, K. M.
A new paddy disease in Madras. Madras Agr. Journ. 19: 34-36. pl. Ja.1931. no.1.
Fungus disease, fungus produces both Fusarium and Cephalosporium types of spores.

Thomas, K. M.
A practical method of estimating disease resistance in crop plants. Madras Agr. Journ. 19: 16-23. Ja.1931. no.1.
Paddy (blast), sugarcane (mosaic), groundnuts (wilt, Rhizoctonia bataticola).

Malayan Agr. Journ. (Kuala Lumpur)
Beeley, F.
Control of mouldy rot disease of rubber. Malayan Agr. Journ. 19: 74-76. F.1931. no.2.

Matières Grass. (Paris)
Pieraerts, J., Adraiens, L. & Castagne, E.
Contributions à l'étude du voandzou (cont.) Matierès Grass. 23: 9114-9116. Mr.15, 1931. no.275.

Meld. Norges Landbruks (Oslo)

Bremer, A. H.

Temperatur og plantevekst III. Gulrot (Temperature and plant growth III.Carrot). Meld. Norges Landbruks. 11: 54-100. illus. 1931. no.1/2.

English summary.

Missouri Bot. Gard. Bull. (St.Louis)

Hunter, M. D.

Notes from the Garden's tropical station,Balboa, C.Z. Missouri Bot. Gard. Bull. 19: 45-51. pl.12-15. Mr.1931. no.3.

Notes on Missouri plants found on certain geological formations. Missouri Bot. Gard. Bull. 19: 52-56. Mr.1931. no.3.

Some new and interesting plants from Missouri. Missouri Bot. Gard. Bull. 19: 56-57. Mr.1931. no.3.

Sullivantia renifolia, Dumortiera hirsuta, Diplophyllum apiculatum, Jubula pennsylvanica, Frullania inflata.

Mitt. Deut. Landw. Ges. (Berlin)

Schlumberger, O.

Prüfung von kartoffelsorten auf ihr verhalten gegen schorf in jahre 1930. Mitt. Deut. Landw. Ges. 46: 229-232. illus. Mr.21, 1931. no.12.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Zscheile,

Statice sinuata atrocoerulea compacta "Andenken an Friedrich Kampf". Möller's Deut. Gärtn.-Zeit. 46: 102-103. illus. Mr.21, 1931.

Nature (London)

Dillon Weston, W.A.R.

Virulency of Tilletia caries on wheat varieties. Nature 127: 483-484. Mr.28, 1931. no.3204

Good, R.D'O.

Plant distribution. Nature 127: 484. Mr.28, 1931. no.3204.

With regard to angiosperms.

Nature (cont.)

The relation of the fauna and flora of the British Isles to those of North America. Nature 127: 501-502. Mr.28, 1931. no.3204.

Discussion held at Linnean society, Mr.5, the question of the flora was considered by Dr. A. B. Rendle, Mr. J. Ramsbottom, Dr. O. Stapf, Mr. A.J. Wilmott.

Naturforsch. (Berlin)

Fischer, H.

Ueber pflanzen-kolloid, ihren bau und ihre eigenschaften. Naturforsch. 7: 449-455. Mr.1931. no.12.

Möbius, M.

Die gestalt des pflanzenembryos in samen in beziehung zur systematik und lebensweise (concl.) Naturforsch. 7: 455-461. illus. Mr. 1931. no.12.

Sass, H.

Ricinus communis eine insektivore? Naturforsch. 7: 470-471. Mr.1931. no.12.

Naturwissensch. (Berlin)

Gradmann, H.

Die wasserverhältnisse des bodens und das pflanzenwachstum. Naturwissensch. 19: 257-264. Mr.20, 1931. no.12.

New Zeal. Journ. Agr. (Wellington)

Adamson, N.J.

Mortality in stone-fruit trees in Hawke's Bay district. New Zeal. Journ. Agr. 42: 116. F.20, 1931. no.2.

Caused by weather conditions.

Notizbl. Bot. Gart. Berlin.

Burret, M.

Eine neue palmengattung aus Südamerika. Notizbl. Bot. Gart. Berlin 11: 48-51. illus. D.30,1930. (Rec'd Mr.1931) no.101.

Parajubaea cocoides, P. torallyi (Diplothemium)

Notizbl. Bot. Gart. Berlin (cont.)

Burret, M.
Palmae novae austroamericanae. Notizbl. Bot. Gart. Berlin 11: 1-19. D.30, 1930 (Rec'd Mr.1931) no.101.

Fries, R.E. & Fries, T.C.E.
Beiträge zur kenntnis der flora des Kenia, Mt. Aberdare und Mt. Elgon XIV. Notizbl. Bot. Gart.Berlin 11: 20-47. illus. D.30, 1930 (Rec'd Mr.1931) no.101.

Harms, H.
Bromeliaceae. IV. Notizbl. Bot. Gart. Berlin 11: 57-61. D.30, 1930 (Rec'd Mr.1931) no.101.

Harms, H.
Zur kenntnis von Lysiloma guachapele (H.B.K.) Benth. Notizbl. Bot. Gart. Berlin 11: 52-56. D.30, 1930 (Rec'd Mr.1931) no.101.
Pseudosamaneo n.gen., P. guachapele, Serianthes inopinata, n.spp.

Mildbraed, J.
Acanthaceae novae. Notizbl. Bot. Gart. Berlin 11: 62-71. D.30, 1930 (Rec'd Mr.1931) no.101.

Ohio Journ. Sci. (Columbus)

Schaffner, J. H.
Principles of plant taxonomy, X. Ohio Journ. Sci. 31: 77-96. Mr.1931. no.2.

Onze Ploeg Landb. Tijdschr. (Leuben)

Derwael, G.
De insectenetende planten. Onze Ploeg Landb. Tijdschr. 10: 72-77. illus. Mr.1931. no.3.

Jennes, J.
Zelfsteriliteit bij onze fruitboomen (cont.) Onze Ploeg Landb. Tijdschr. 10: 81-84. Mr.1931.no.3.

Papers Mich. Acad.Sci. (cont.)

Dale, E. E.
Inheritance of dwarf in Capsicum. Papers Mich. Acad. Sci. 13:1-4. 1931

Dale, E. E.
Maternal inheritance in a chlorophyll variegation in Capsicum. Papers Mich. Acad. Sci. 13: 5-8. pl. i. 1931.

Darlington, H. T.
Vegetation of the Porcupine Mountains, northern Michigan. Papers Mich. Acad. Sci. 13: 9-65. illus. (incl.maps), pl.ii-xxviii. 1931.

Gates, F. C. & Ehlers, J.H.
Additions to an annotated list of the higher plants of the region of Douglas Lake, Michigan. II. Papers Mich. Acad. Sci. 13: 67-88. 1931.

Gilmore, M. R.
Dispersal by Indians a factor in the extension of discontinuous distribution of certain species of native plants. Papers Mich. Acad. Sci. 13: 89-94. 1931.

Gustafson, F. G. & Laing, H.E.
Growth studies on fruits. The effect of the removal of alternate flower clusters on the development of fruits in the tomato. Papers Mich. Acad. Sci. 13: 95-99. 1931.

Hendrick, J.
Lichens from the state of Oklahoma. Papers Mich. Acad. Sci. 13: 101-110. 1931.

Kulkarni, C. G.
Inheritance studies of white-capping in yellow dent maize. II. Papers Mich. Acad. Sci. 13: 111-129. 1931.

La Rue, C.D.
The water supply of the epidermis of leaves. Papers Mich. Acad. Sci. 13: 131-139. 1931.

Lohman, M. L.
A study of Glonium parvulum in culture. Papers Mich. Acad. Sci. 13: 141-157. pl. xxix-xxxi. 1931.

Papers Mich. Acad. Sci. (cont.)

McArdle, R. E.
Determining the identity of mycorrhiza-forming fungi. Papers Mich. Acad. Sci. 13: 159-164. 1931.

McCrea, A.
Longevity of conidia of common fungi under laboratory conditions. Papers Mich. Acad. Sci. 13: 165-167. 1931.

Moseley, E. L.
Some plants that were probably brought to northern Ohio from the west by Indians. Papers Mich. Acad. Sci. 13: 169-172. 1931.

Povah, A. H.
Fungi of Rock River, Michigan. Papers Mich. Acad. Sci. 13: 173-189. illus. 1931.
Ascophanus cervinus, Chaetomium kauffmanianum, Monilia ochracea, Sphaeropsis abietis, n.sp.

Randolph, J. F.
Vector methods as a basis for mathematical formulation of the date of Oenothera genetica. Papers Mich. Acad. Sci. 13: 191-211. 1931.

Steere, W. C.
Petunia parodii, a new species of the subgenus Pseudonicotiana from Argentina. Papers Mich. Acad. Sci. 13: 213-215. pl. xxxii-xxxiv. 1931.

Tupper, W. W.
An unusual seasonal growth ring in Eucalyptus. Papers Mich. Acad. Sci. 13: 217-219. pl.xxxv. 1931.

Woodcock, E. F.
Morphological studies on the seed of Mesembrianthemum crystallinum L. Papers Mich. Acad. Sci. 13: 221-226. pl. xxxvi-xxxvii. 1931.

Pflanzenbau (Berlin)

Appel, G. O.
Aufgaben einer hauptstelle für pflanzenschutz. Pflanzenbau 7: 249-253. F.1931. no.8.

Pflanzenbau (cont.)

Aufhammer, A.
Ein beitrag zur kenntnis der basalborste bei Hordeum polystichum. Pflanzenbau. 7: 231-237. illus. F.1931. no. 8.

Schlumberger, O.
Die bewertung der Rhizoctonia-erkrankungen bei der pflanzkartoffel-anerkennung. Pflanzenbau 7: 237-239. F.1931. no.8.

Pharm. Acta Helv. (Zürich)

Gyhr, M.
Beiträge zur anatomie des laubblattes pharmazeutisch gebrauchlicher rosaceendrogen. Pharm. Acta Helv. 6: 69-72. pl. 1-3. Mr.28,1931. no.3.

Phytopath. Zeitschr. (Berlin)

Pieschel, E.
Erfahrungen über einsporimpfungen mit getreiderostpilzen. Phytopath. Zeitschr. 3: 89-100. 1931. no.1.

Volk, A.
Beitrage zur kenntnis der wechselbeziehungen zwischen kulturpflanzen, ihren parasiten und der umwelt. IV. Einflüsse des bodens, der luft und des lichtes auf die empfänglichkeit der pflanzen für krankheiten. Phytopath. Zeitschr. 3: 1-88. illus. 1931. no.1.

Phytopath.

Allen, T. C.
Bacteria producing rot of apple in association with the apple maggot, Rhagoletis pomonella. Phytopath. 21: 338. Mr. 1931. no.3.

Godfrey, G. H.
The host plants of the "burrowing" nematode, Tylenchus similis. Phytopath. 21: 315-322. illus. Mr. 1931. no.3.

Godfrey, G. H.
Some technique used in the study of the root-knot nematode, Heterodera radicicola. Phytopath. 21: 323-329. illus. Mr. 1931. no.3.

Phytopath. (cont.)

Hastings, E. G.
William Harmon Wright 1885-1929. Phytopath. 21: 243-246. port. Mr. 1931. no.3.

Koch, L. W.
Spur blight of raspberries in Ontario caused by Didymella applanata. Phytopath. 21: 247-287. illus. Mr.1931. no.3.

Mills, W. D.
A method of detecting and demonstrating early leaf infections of apple scab. Phytopath. 21: 338-339. Mr.1931. no.3.

Rawlins, T.E. & Horne, W.T.
"Buckskin", a destructive graft-infectious disease of the cherry. Phytopath. 21: 331-335. illus. Mr. 1931. no.3.

Richards, B.L. & Tompkins, C.M.
The late blight of the sugar beet. Phytopath. 21: 289-314. illus. Mr. 1931. no.3.

Uppal, B.N. & Desai, M.K.
Physiologic specialization in Sclerospora graminicola. Phytopath. 21: 337-338. Mr. 1931. no.3.

Planta Arch. Wiss. Bot. (Berlin)

Kirchheimer, F.
Die fossilen vertreter der gattung Salvinia Mich. III. Ueber einen neuen fund von resten mikrosporangien einer miozänen salvinie. Planta Arch. Wiss. Bot. 13: 102-113. illus. Mr.3,1931. no.1.

Krause, O.
Zytologische studien bei den Urticales unter besonderer berücksichtigung der gattung Dorstenia. Planta Arch. Wiss. Bot. 13: 29-84. illus. Mr.3, 1931. no.1.

Meyer, K. I.
Zur entwicklungsgeschichte des sporophyten einiger Marchantiales. Planta Arch. Wiss. Bot. 13: 193-220. illus. Mr.3, 1931. no.1.

Planta Arch. Wiss. Bot. (cont.)

Schmucker, T.
Zur ökologie der fensterblätter. Planta Arch.Wiss. Bot. 13: 1-17. illus. Mr.31, 1931. no.1.

Seybold, A.
Weitere beiträge zur kenntnis der transpirationsanalyse I- Planta Arch. Wiss. Bot. 13: 18-28. Mr.3, 1931. no.1.

Silberschmidt, K.
Studien zum nachweis von antikörpern in pflanzen I. Planta Arch.Wiss. Bot. 13: 114-168. Mr.3, 1931. no.1.

Umrath, K.
Der übergang der blätter in schlafstellung. Planta Arch. Wiss. Bot. 13: 169-192. illus. Mr.3, 1931. no.1.

Winkler, H.
Ueber die eigenartige stellung der blüten bei der rubiacee Stichianthus minutiflorus Valeton. Planta Arch. Wiss. Bot. 13: 85-101. illus. Mr.3. 1931. no.1.

Proc. Acad. Nat. Sci. Phila.

Pennell, F. W.
Genotypes of the Scrophulariaceae in the first edition of Linné's "Species plantarum". Proc. Acad. Nat. Sci. Phila. 82: 9-26. 1931.

Proc. Amer. Assoc. Nurserym.

Macdonald, M.Q.
Plant patent law. Proc. Amer. Assoc. Nurserym. 55(1930): 97-111. 1931?

Melhus, I. E.
Progress in crown gall problem. Proc. Amer. Assoc. Nurserym. 55(1930): 149-153. 1931?

Pyle, R.
Report of the botanical gardens and arboretums committee. Proc. Amer. Assoc. Nurserym. 55(1930): 162-171. 1931?

Proc. Imp. Acad. Tokyo.

Kobayashi, Y.

Biologische untersuchungen über die wirksamen bestandteile der Digitalisblätter. Proc. Imp. Acad. Tokyo. 7: 76-79. F. 1931. no.2.

Yasuda, S.

An experiment to graft the style upon the ovary in Petunia violacea. Proc. Imp.Acad. Tokyo. 7: 72-75. illus. F.1931. no.2.

Protoplasma. (Leipzig)

Gicklhorn, J.

Plasmolyse-orte verschiedener entwicklungs-stadien einer zelle. Protoplasma 12: 79-85. illus. Ja. 1931. no.1.

Malhotra, R. C.

Permeability of iodine in some economic plants. Protoplasma 12: 1-22. pl. i. Ja. 1931. no.1.

Weber, F.

Harnstoff-permeabilität ungleich alter Spirogyra-zellen. Protoplasma. 12: 129-140. illus. Ja. 1931. no.1.

Publ. Min. Zemed. Czecho-Slov. Rep.

Klika, J.

Dendrologie. Publ. Min. Zemed. Czecho-Slov. Rep. no.79. 327 p. illus. 1930.

Rev. Agr. Piracicaba.

Bitancourt, A. A.

O trifolio (Stylosanthes guyannensis Swartz). Rev. Agr. Piracicaba 6: 21-29. illus. Ja./F.1931.no.1/2.

Teixeira Mendes, C.

A biometria nos estudos de genetica. Rev. Agr. Piracicaba 6: 3-20. diagrs. Ja./F. 1931. no.1/2.

Rev. Agr. Puerto Rico (San Juan)

Gonzáles Ríos, P.

El cultivo del banano en Puerto Rico. Rev. Agr. Puerto Rico 26(8): 58-71. illus. F.1931. no.3.

Rev. Agr. Puerto Rico. (cont.)
Toro, R. A.
Nuevas enfermedades de la palma de coco en Puerto Rico. Rev. Agr. Puerto Rico. 26(8): 42-43. illus. F.1931. no.3.
1. Hoja pequeña. 2. Marchitez. 3. Tronco rojizo (Aphelenchus coccophilus). 4. Pudrición del tronco.

Rev. Fac. Agron. Univ. La Plata
Albizzati, C. M.
Contribución al estudio de la Nassauvia axillaris D.Don. Rev. Fac. Agron. Univ. La Plata 19: 166-171. illus. D.1930. no.2.

Lindquist, J. C.
Algunos hongos nuevos parásitos de las plantas cultivadas de la República Argentina. Rev. Fac. Agron. Univ. La Plata 19: 197-210. illus. D. 1930. no.2.

Rev. Soc. Colombiana Cienc. Nat. (Bogota)
Toro, R. A.
Contribucion a la flora de Antioquia. Rev. Soc. Colombiana Cienc. Nat. 20: 20-32. F./Mr. 1931. no.109.

Rev. Gén. Bot. (Paris)
Chauveaud, G.
Une présentation fantaisiste de la phyllorhize et de l'évolution vasculaire. Rev. Gén. Bot. 43: 87-93. F.1931. no.506.

Guilliermond, A.
Recherches sur l'homothallisme chez les levures. Rev. Gen. Bot. 43: 49-86. illus., pl. i-6. F. 1931. no.506.

Rev. Hort. (Paris)
Guillaumin, A.
Les cactées. Comment les reconnaitre. (cont.) Rev. Hort. 103:362. Mr.16, 1931. no.15.

Riv. Ital. Ess. Profumi. (Milan)
Liotta, P.
Sull'olio essenziale di Satureya nepeta L. Riv. Ital. Ess. Profumi 13: 93-94. Mr.15,1931. no.3.

Riv. Ital. Ess. Profumi (cont.)
Mori, A. de
Il piretro in Dalmazia. Riv. Ital. Ess. Profumi 13: 83-86. illus. Mr.15, 1931. no.3.

Roczn. Nauk Rolnicz. i Leśn. (Polish Agr. & For. Ann.) (Poznán)
Bobińska, S.
Przyczynek do badań nad morfologja owoców kilku odmian pomidorów (Ein beitrag zur versuchen über die morfologie einiger abarten der tomatenfrüchte) Roczn. Nauk Rolnicz. i Leśn. (Polish Agr. & For. Ann.) 24: 453-466. 1930. no.3.
Polish with German summary.

Vorbrodt, W.
S. p. Emil Godlewski. Roczn. Nauk Rolnicz. i Leśn. (Polish Agr. & For. Ann.) 24: 329-372. port. 1930. no.3.

Science (Lancaster, Pa.)
Dr. L. H. Pammel... Science 73: 355. Ap.3, 1931. no.1892.
Notice of death.

Wieland, G. R.
A flowering cycadeoid from the Isle of Wight. Science 73: 370-372. Ap.3, 1931.

Sitzungsb. Akad. Wiss. Wien Math.-Naturw. lk. Abt. I
Bersa, E.
Kultur und ernährungsphysiologie der gattung Pilobolus. Sitzungsb. Akad. Wiss. Wien. Math.-Naturw. Kl. Abt.I. 139: 355-371. 1930. no.5/6.

Fischer, R.
Ueber den saponinnachweis in der pflanze mit blutgelatine. Sitzungsb. Akad. Wiss. Wien Math.-Naturw. Abt.I. 193: 321-354. 1930. no.5/6.

Sitzungsb. Akad. Wiss. Wien, Math.-Naturw. Kl. Abt. IIb.
Zellner, J.
Zur chemie der halophyten. II. Sitzungsb. Akad. Wiss. Wien Math.-Naturw. Kl. abt.IIb. 139: 467-469. 1930. no.7.

South. Flor. (Fort Worth, Tex.)

Weinard, F. F.

Sulfur dust effective on greenhouse roses. South. Flor. 30(26): 14. Mr.27, 1931. no.26.

Subtropiki (Suchum)

Mikheev, A. A.

Kangal - novoe maslichnoe Azerbaidzhana (Kangal Silybum marianum Ga'rtn. - a new oleiferous plant of Azerbaidjan). Subtropiki 2: 125-130. 1930. no.1/2.

Russian with English summary.

Trans. Nat. Hist. Soc. Formosa

Kanehira, R.

New species, varieties and combinations of Formosan trees from the Taihoku herbarium. Trans. Nat. Hist. Soc. Formosa 20: 380-384. D.1930 (Rec'd Mr.1931) no.111.

Trans. Penin. Hort. Soc. (Dover, Dela.)

Adams, J. F.

Some recent results in spraying apples. Trans. Penin. Hort. Soc. 44(1930): 98-110. [1931]

Lagassé, F. S.

Do nitrogen applications affect the nitrogen content and shipping quality of yellow transparent apples? Trans. Penin. Hort. Soc. 44(1930): 46-51. [1931]

Annual nitrogen applications over 5 year period had no influence on keeping quality; increased average percentage nitrogen in fruit, approximately 18% but only .38% in seeds.

Schneiderhan, F. J.

Nine years of progress in orchard pest control in West Virginia and Virginia. Trans. Penin. Hort. Soc. 44(1930): 90-97. [1931]

Tropenpfl. (Berlin)

Morstatt, H.

Degeneration bei kulturpflanzen und die frage ihres vorkommens bei Sisal. Tropenpfl. 34: 95-99. Mr. 1931. no.3.

Tropenpfl. (cont.)

Schmidt, G. A.

Herr Professor Dr. Albrecht Zimmermann, geheimer und ober-regierungsrat. Tropenpfl. 34: 93-94. Mr.1931. no.3.

Died Feb.23.

Trop. Agriculture West Indies (Trinidad)

Briton-Jones, H. R. & Cheesman, E. E.

Witch broom control. A new aspect of witch broom control in Trinidad. Trop. Agriculture West Indies 8: 79-89. pl. i-ii. Ap. 1931. no.4.

Trudy Tiflissk. Bot. Sada (Trav. Jard. Bot. Tiflis)

Nagorny, P. I.

Mikoflora Kavkazskoi vinogradnoi lozy (Die pilzflora der kaukasischen weinrebe). Trudy Tiflissk. Bot. Sada (Trav. Jard. Bot. Tiflis) II, v.5. 207 p. illus. 6 pl. 1930.

Russian & German.

Die Umschau (Frankfurt)

Schaarschmidt, W.

Einfluss der ernährung auf die empfänglichkeit von pflanzen für parasitare krankheiten. Die Umschau 35: 217-219. illus. Mr.14,1931. no.11.

U. S. Dept. Agr. Plant Dis. Rep.

Bratley, C. O.

New York market pathology notes. U. S. Dept. Agr. Plant Dis. Rep. 15: 27-28. Ap.1, 1931. no.3.

Strawberries, pears, asparagus (no decay in the latter)

Ramsey, G. B.

Diseases found on Chicago market. U. S. Dept. Agr. Plant Dis. Rep. 15: 26-27. Ap.1, 1931. no.3.

Torres, I. L.

Bud rot of coconuts in Porto Rico. U. S. Dept. Agr. Plant Dis. Rep. 15: 23-24. Ap.1, 1931. no.3.

Tylenchus pratensis parasitizung yams from West Africa. U. S. Dept. Agr. Plant Dis. Rep. 15: 21-22. illus. Ap. 1, 1931. no.3.

U. S. Dept. Agr. Techn. Bull.
Metcalf, F. P.
Wild-duck foods of North Dakota lakes.
U. S. Dept. Agr. Techn. Bull. 221. 70 p.
Mr. 1931.

Univ. Calif. Publ. Agr. Sci. (Berkeley)
Pool, C. F.
The interspecific hybrid, Crepis rubra x C. foetida, and some of its derivatives I. Univ. Calif. Publ. Agr. Sci. 6: 169-194. illus., pl.9-11. Mr.17, 1931. no.6.

Verh. Zool. Bot. Ges. Wien.
Janchen, E.
Die internationale botanische nomenklatur auf dem botanikerkongress zu Cambridge (England). Verh. Zool.- Bot. Ges. Wien 80: 75-83. D.31, 1930. no.1/2.

Lämmermayr, L.
Neue floristische ergebnisse der begehung steirischer magnesit- und serpentinlager. Verh. Zool.-Bot. Ges. Wien. 80: 83-93. map. D.31, 1931. no.1/2.

Pehr, F.
Floristische studien im bereiche des ossiacher tauern. Verh. Zool.-Bot. Ges. Wien 80: 93-132. map. D.31, 1931. no.1/2

Versl. Gew. Vergad. Afd. Natuurk.
Martinus Willem Beyerinck. Versl. Gew. Vergad. Afd. Natuurk. 40: 6-12. 1931. no.1.

Wild Flower (Cincinnati, Ohio)
Ewer, S. J.
The ram's head lady's slipper. Wild Flower 8: 14-16. illus. Ap.1, 1931. no.2.
Cypripedium arietinum.

Yearbk. Madras Agr. Dept.
Ayyangar, B.N.R. & Ayyar, M.A.S.
Double seeds in sorghum. Yearbk. Madras Agr. Dept. 1929: 1-6. pl. 1930.

Ayyangar. C. R.
Study of a Fusarium isolated from wilted plantains. Yearbk. Madras Agr. Dept. 1929: 16-21. pl. 1930.

Zeitschr. Pflanzenernähr. Düng. u.Bodenk. A. Wiss. Teil (Leipzig)

Niethammer, A.
Die grundlagen chemischer reizwirkungen an höheren pflanzen. Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A. Wiss. Teil. 19: 342-352. 1931. no.5/6.

Zeitschr. Pilzk. (Leipzig)

Kallenbach, F.
Polyporoide (porlingsähnliche) missbildungen beim champignon und ähnliche bildungsabweichungen. Zeitschr. Pilzk. 15(n.s.15 i.e.10): 11-13. F.25, 1931. no.1.

Kersten,
Eine vergiftung mit Amanita pantherina,dem pantherpilz. Zeitschr. Pilzk. 15(n.s.15, i.e. 10): 13-16. F.25, 1931. no.1.

Welsmann, L.
Ueber die giftigkeit der frühjahrs- lorchel, Helvella esculenta. Zeitschr. Pilzk. 15(n.s. 15 i.e.10): 5-11. F.25, 1931. no.1.

Zentralbl. Bakt. Abt. II. (Jena)

Minkewitsch, I.E.
Materialien zur rolle der insekten in der verbreitung der bakterine der coli-aerogenesgruppe im reich der pflanzen. Zentralbl. Bakt. Abt. II, 83: 125-126. Mr.16,1931. no.8/14.

Pascher, A.
Zur morphologie und biologie einer kolonialen, in der gallerte einer alge lebenden bakterie. Zentralbl. Bakt. Abt.II, 83: 175-183. illus. Mr.16,1931. no.8/14.

Zprávy Výzkumn. Ustavu Zeměd. (Czecho-Slov.Rep.)

Borisov, S.
Přispěvek k seznáni reakce stav kořenu a listu lesních drevin se zřetelem k acidité půdy. (Beitrag zur kenntnis der rekation von wurzel- und blattsäften der holzarten mit rücksicht auf den säuregrad des bodens). Zprávy Zylumn. Ustavu Zeměd. (Czecho-Slov. Rep.) no.42. 26 p. illus. 1930.
German summary.

Zprávy Výzkumn. Ustavu Zeměd. (cont.)

Simon, J.

Vusledky pokusu vyšetřujicich vliv některych dráždivych látek na klicěni a zkracováni obdobi rustového odpočinku bramborových hliz (Die ergebnisse der versuche über den einfluss einiger reizstoffe auf die keimung und die verkürzung der periode der wachstumsruhe der kartoffelknollen). Zprávy Výzkumn. Zeměd. (Czecho-Slov.Rep.) no.44. 32 p. illus., fold.tab. 1930.

German summary.

Der Züchter (Berlin)

Brieger, F.

Geschlechtschromosomen im pflanzenreich. Der Züchter 8: 83-92. illus. Mr.1931. no.3.

Goetze, G.

Der augenblickliche stand der frage einer rotkleebefruchtung durch die honigbiene. Der Zuchter 8: 74-82. illus. Mr.1931. no.3.

Exper. Stat. Publ.

Need quack grass control in potato fields. Mich. Agr. Exp. Stat. Quart. Bull. 13: 128-130. illus. F.1931. no.3.

Miles, L. E.

Annual report of the Department of plant patholory. Ann. Rep. Mississippi Agr. Exp. Stat. 43(1929/30): 29-31. [1931?]

Robbins, W. R., Nightingale, G.T. & Schermerhorn, L. G.

Premature heading of cauliflower as associated with the chemical composition of the plant. New Jersey Agr. Exp. Stat. Bull. 509. 14 p. illus. Ja. 1931. (Rec'd Ap.)

Welton, F. A. & Morris, V. H.

Lodging in oats and wheat. Ohio Agr. Exp. Stat. Bull. 471. 88 p. illus. F.1931.

State Publications.

Adams, J. F.

Plant disease survey of economic crops for 1930. Quart. Bull. State. Bd. Agr. Delaware 21(1): 6-7. Mr.31, 1931. no.1.

State Publications (cont.)

Adams, J. F.
Report of the plant pathologist for 1930. Quart. Bull. Delaware State Bd. Agr. 21: 3-5. Mr. 31, 1931. no.1.

Milbrath, D. G.
Plant pathology. Month. Bull. Calif. Dept. Agr. 18(10th Rep.): 774-777. 1931. no.12.

New Books.

Backer, G.
Onkruidflora der Javasche suikkerietgronden. afl. 5. (pl. 129-160). [1931]. (Handboek ten dienste van de suikerriet-cultuur... Java 7. deel)

Honcamp, F.
Handbuch der pflanzenernährung und düngerlehre. v.2. Düngemittel und düngung. Berlin, J. Springer, 1931.

Hume, H. H.
Azaleas and camellias. N. Y., Macmillan, 1931.

McDougall, W. B.
Plant ecology. 2d. 3d., thoroughly rev. Phila., Lee & Febiger, 1931.

Rio de Janeiro. Instituto de expansão commercial.
Babassaú (The babassú nut). Rio de Janeiro, 1930.
Orbignia speciosa.

Schander, R.
Bericht über das auftreten der krankheiten und beschädigungen der kulturpflanzen im bereich der Hauptstelle für pflanzenschutz in Landsberg (Warthe) Vegetationsperiode 1928/29. Landsberg, [1930?]

Stapf, O.
Index londinensis to illustrations of flowering plants, ferns and fern allies... v.5, (Pedicularis - Sapium) Oxford, Clarendon press, 1931.

New books. (cont.)

Stern, C.
Multiple allelie. Berlin, Borntraeger, 1930 (Handbuch der vererbungswissenschaft hrsg. von E. Bauer und M. Hartmann bd. 1, G. (lfg. 14)

Tempany, H. A. & Mann, G. E.
Principles of tropical agriculture. Kuala Lumpur, 1930.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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Vol. 13, no. 8. Apr. 13-25, 1931.

Agr. Prat. Pays Chauds (Paris)

Widiez, M.
La culture du cotonnier en Afrique du Nord. Agr. Prat.Pays Chauds n.s.,2: 277-296. illus. Ap.1931. no.10.

Amer. Bot. (Indianapolis, Ind.)

Clute, W. N.
Bloodweed. Amer. Bot. 37: 77-78. Ap. 1931. no.2.
Ambrosia trifida.

Clute, W. N.
The meaning of plant names. XLVI. Some early-flowering composites. Amer. Bot. 37: 54-58. Ap.1931. no.2.

Ice plants. Amer. Bot. 37:75-76. Ap.1931. no.2.
Verbesina virginica.

Amer. Journ. Bot.

Colley, M. W.
Stimulation phenomena in the growth of bacteria as determined by nephelometry. Amer. Journ. Bot. 18: 266-287. Ap.1931. no.4.

Darlington, H. T.
The 50-year period for Dr. Beal's seed viability experiment. Amer. Journ. Bot. 18: 262-265. illus. Ap.1931. no.4.

Dermen, H.
Polyploidy in Petunia. Amer. Journ. Bot. 18: 250-261. pl.xxi. Ap.1931. no.4.

Domin, K.
Phylogenetic evolution of the phyllome. Amer. Journ. Bot. 18: 237-242. Ap. 1931. no.4.

Amer. Journ. Bot. (cont.)

Foster, A. S.
Phylogenetic and ontogenetic interpretations of the cataphyll. Amer. Journ. Bot. 18: 243-249. Ap.1931. no.4.

Wallace, R. H.
Studies on the sensitivity of Mimosa pudica III. The effect of temperature, humidity, and certain other factors upon seismonic sensitivity. (concl.) Amer. Journ. Bot. 18: 288-307. illus. Ap.1931. no.4.

Ann. Agron. (Paris)

Francois, L.
Limites géographiques des régions méridionales francaises trèfles et luzèrnes du midi de la France. Ann. Agron. (Paris) n.s.,1: 195-222. illus. Mr./Ap. 1931. no.2.

Ann. Crypt. Exot. (Paris)

Dixon, H. H. & Potier de la Varde, R.
Nouvelle contribution à la flore bryologique de l'Inde. Ann. Crypt. Exot. 3: 168-193, incl. 4 pl., illus. D.1930 (Rec'd Ap.1931) no.4.

Dufrénoy, J.
Les phénomènes de sexualite chez les champignons. A propos du congrès botanique de Cambridge 1930. Ann. Crypt. Exot. 3: 231-239. D.1930 (Rec'd Ap.1931) no.4.

Frémy, P.
Les myxophycèes de Madagascar. Ann. Crypt. Exot. 3: 200-230. pl.iv-xii. D.1930 (Rec'd Ap.1931) no.4.

Malencon, G.
Recherches complèmentaires sur les basides du Battarraea guicciardiniana Ces. Ann. Crypt. Exot. 3: 194-199. pl. iii. D.1930 (Rec'd Ap.1931) no.4.

Potier de la Varde, R.
Max Fleischer (1861-1930). Ann. Crypt. Exot. 3: 161-167. port. D.1930 (Rec'd Ap.1931) no.4.
Publications de Max Fleischer: p.165-167.

Ann. Missouri Bot. Gard. (St. Louis)

Anderson, E. & Winton, D.de
The genetic analysis of an unusual relationship between self-sterility and self-fertility in Nicotiana. Ann. Missouri Bot. Gard. 18: 97-116. illus., pl.4. F.1931. no.1.

Fuller, H. J.
Stimulatory effects of radiation from a quartz mercury vapor arc upon higher plants. Ann. Missouri Bot. Gard. 18: 17-40. pl.3. F.1931. no.1.

Linder, D. H.
Brief notes on the Helicosporeae with descriptions of four new species. Ann. Missouri Bot. Gard. 18: 9-16. illus., pl. ii. F.1931. no.1.
Helicoma westoni, H. anastomosans, H. tenuifilum, and H. fuscopes, n.spp.

Linder, D. H.
The genus Helicoceras. Ann. Missouri Bot. Gard. 18: 1-8. pl. i. F.1931. no.1.

Reynolds, E. S.
Studies on the physiology of plant disease. Ann. Missouri Bot. Gard. 18: 57-95. illus. F.1931. no.1.

Steyermark, J. A.
A study of plant distribution in relation to the acidity of various soils in Missouri. Ann. Missouri Bot. Gard. 18: 41-55. F.1931. no.1.

Ann. Rep. Canal Zone Plant Introd. Gard. (Panama)

Panama canal zone. Plant introduction gardens.
Annual report of the Canal zone Plant introduction gardens for the fiscal year 1929. 31 p. x pl. 1930.

Arb. Biol. Reichsanst. Land- u. Forstw. Berlin.

Merkenschlager, F. & Klinkowski, M.
Der rückzug der kartoffelsorts Magnum bonum nach Skandinavien im lichte der ökologischen abbautheorie. (Mit einem bericht von E. Klapp, Magnum bonum in Thüringen) Arb. Biol. Reichsanst. Land- u. Forstw. 18: 431-463. illus. 1931. no.4.
Zur biologie der kartoffel, VII von F. Merkenschlager.

Müller, K. O.
Ueber die entwicklung von Phytophthora infestans auf anfälligen und widerstandsfähigen kartoffelsorten. Arb. Biol. Reichsanst. Land- u. Forstw. 18: 465-505. illus. 1931. no.4.
Untersuchungen über die kartoffelkrautfäule und die biologie ihres erregers. II.

Wartenberg, H.
Beitrag zur kenntnis des ökologischen abbaues der kartoffel. Arb. Biol. Reichsanst. Land- u. Forstw. 18: 405-423. illus. 1931. no.4.
Zur biologie der kartoffel VI. von F. Merkenschlager.

Arch. Pharm. & Ber. Deut. Pharm. Ges. (Berlin)

Bredemann, G. & Kötter, W.
Zur entwicklungsgeschichte der wacholderbeeren (Fructus juniperi) Arch. Pharm. & Ber. Deut. Pharm. Ges. 269: 167-175. illus. Mr.1931. no.3.

Fischer, R. & Schropp, H.
Die verteilung der saponine in der digitalispflanze. Arch. Pharm. & Ber. Deut. Pharm. Ges. 269: 157-164. Mr.1931. no.3.

Arch. Protistenk. (Jena)

Geitler, L.
Rhodostichus n.gen. Arch. Protistenk. 73: 305-310. illus. Mr.26, 1931. no.2.
Rhodostichus expansus.

Gross, I.
Entwicklungsgeschichte, phasenwechsel und sexualität bei der gattung Ulothrix. Arch. Protistenk. 73: 206-234. illus. Mr.1931. no.2.

Arch. Protistenk. (cont.)

Kisselew, J. A.

Zur morphologie einiger neuer und seltener vertreter des pflanzlichen microplanktons. Arch. Protistenk. 73: 235-250. illus. Mr.26,1931. no.2.

Pascher, A.

Ueber die verfestigung des protoplasten im gehäuse einer neuer euglenine (Klebsiella). Arch. Protistenk. 73: 315-322. illus. Mr.26,1931. no.2.

Klebsiella alligata.

Roskin, Gr.

Neue flagellatenarten. Arch. Protistenk. 73: 203-205. illus. Mr.26, 1931. no.2.

Acinetactis polymorpha, Anisonema obliquum, Urceolus ovatus, Actinomonas radiosa, Codonosiga ornata, n.spp.

Arch. Rubbercult. Nederl.-Ind. (Batavia, Java)

Frey-Wyssling, A.

Abnormale bladeren van Hevea brasiliensis als cloonkenmerk. (Abnormal leaves of Hevea brasiliensis as a clonal characteristic). Arch. Rubbercult. Nederl-Ind. 15: 103-124. illus. F.1931. (Rec'd Ap.) no.2.

English summary p.114-124.

Arch. Suikerind. Nederl.-Indië (Soerbaja)

Koningsberger, V. J.

Dr. G. Wilbrink, 1906- 1 Maart - 1931. Arch. Suikerind. Nederl.-Indië. 1931: 229-233. port. Mr.17, 1931.

Lijst van publicaties van Dr. G. Wilbrink: p.233.

Appointed botanical assistant at Profefstation "Kagok", Pekalongan, Mr.1,1931.

Beih. Zeitschr. Schweiz. Forstv.

Gäumann, E.

Die einfluss der fällungszeit auf die dauerhaftigkeit des fichten- und tannenholzes. Beih. Zeitschr. Schweiz. Forstv. no.6. 155 p. 6 pl. 1930.

Untersuchungen über den einfluss der fällungszeit auf die eigenschaften des fichten- und tannenholzes. II.

Beih. Zeitschr. Schweiz. Forstv. (cont.)
Gut, R. C.
Le gaz carbonique dans l'atmosphère forestière. Beih. Zeitschr. Schweiz. Forstv. no.3. 112 p. illus. 1929 (Rec'd Ap.1931)

Beitr. Geobot. Landesaufn. Schweiz.
Schmid, E.
Vegetationskarte der oberen Reusstäler. Beitr. Geobot. Landesaufn. Schweiz. no.16. 64 p. fold.map. 1930.

Bergcultures (Batavia, Java)
Gandrup, J.
Beschouwingen over meeldauw. Bergcultures. 5: 262-268. Mr.7, 1931. no.10.

Overzicht van de ziekten en plagen bij koffie in het haar 1930. Bergcultures 5: 254-255. Mr.7, 1931. no.10.

Steinmann, A.
Over een nieuwe ziekte van de dadap (Erythrina subumbrans) in Nederlandsch-Indië. Bergcultures 5: 282-284. illus. Mr.14,1931. no.11.

Steinmann, A.
Overzicht van de ziekten en plagen van groenbemesters over 1930. Bergcultures 5: 255-257. Mr.7, 1931. no.10.

Better Fruit (Portland, Ore.)
Davenport, A. B.
Scald of apples in storage. Better Fruit 25(10): 14. Ap.1931.

Late Oregon spray recommendations. Better Fruit 25(10): 5-6. illus. Ap.1931.

Blue Anchor. (Sacramento, Cal.)
Philp, G. L.
Cherry growing in California. Blue Anchor 8(4): 2-4, 24. illus. Ap.1931.

Boll. R. Staz. Patol. Veg. Roma. (Firenze)

Petri, L.
L'azione anticrittogamica dello solfo secondo vecchie e recenti ipotesi. Boll. R. Staz. Patol. Veg. Roma n.s. 10: 367-379. 1930(Rec'd Ap.1931) no.4.

Petri, L.
Nuove osservazioni sulla biologia della Deuterophoma tracheiphila. Boll. R. Staz. Patol. Veg. Roma n.s. 10: 437-447. illus. 1930 (Rec'd Ap.1931) no.4.

Sibilia, C.
Ricerche sulla ginocchiatura degli internodi di grano. Boll. R. Staz. Patol. Veg. Roma n.s., 10: 423-436. illus. 1930(Rec'd Ap.1931) no.4.

Curzi, M.
Petriella. Nuvo genere di pirenomicete. Boll. R. Staz. Patol. Veg. Roma. n.s.,10: 380-422. illus., 2 pl. 1930 (Rec'd Ap.1931) no.4.
P. asymmetrica, P. boulangerii, P. setifera (Microascus)

Bot. Gaz.(Chicago)

Adriance, G. W.
Factors influencing fruit setting in the pecan. Bot. Gaz. 91: 144-166. illus. Ap.1931.no.2.

Castle, E. S.
Phototropic "indifference" and the light-sensitive system of Phycomyces. Bot. Gaz. 91: 206-212. illus. Ap.1931. no.2.

Eaton, S. V.
Effects of variation in day-length and clipping of plants on nodule development and growth of soy bean. Bot. Gaz. 91: 113-143. illus. Ap.1931.no.2.

Halma, F.F. & Haas, A.R.C.
Solubility changes of inorganic constituents in citrus cuttings. Bot. Gaz. 91: 213-218. illus. Ap.1931.no.2.

McHargue, J.S. & Calfee, R.K.
Effect of manganese, copper, and zinc on growth and metabolism of Aspergillus flavus and Rhizopus nigricans. Bot. Gas. 91: 183-193. illus. Ap. 1931. no.2.

Bot. Gaz. (cont.)

Michaels, W. H.
Respiration of the shoot as affected by temperature changes of the root. Bot. Gaz. 91: 167-182. illus. Ap.1931. no.2.

Vokes, M. M.
Nuclear division and development of sterigmata in Coprinus atramentarius. Bot. Gaz. 91: 194-205. illus. Ap.1931. no.2.

Bot. Mag. Tokyo.

Honda, M.
Nuntia ad floram Japoniae. IX-X. Bot. Mag. Tokyo. 45: 1-4, 43-45. Ja., F.1931 (Rec'd Ap.) no. 1,2.

Inariyama, S.
Cytological studies in the genus Lycoris. (Preliminary notes). Bot. Mag. Tokyo 45: 11-26. illus. pl. i-iii. Ja.1931 (Rec'd Ap.) no.1.
In Japanese with French résume; p.22-24.

Kimura, A.
The scientific name of Japanese Salix viminalis (non.L.) Bot. Mag. Tokyo 45: 28. Ja.1931. (Rec'd Ap.) no.6.
In Japanese.

Kinoshita, K.
Ueber eine neue Aspergillus-art, Asp. itaconicus nov.spec. Bot. Mag. Tokyo 45: 45-61. illus. pl.iv. F.1931(Rec'd Ap.) no.2.
Japanese with German summary: p.60-61.

Nakajima, G.
The chromosome numbers in cultivated and wild angiosperms. Bot. Mag. Tokyo 45: 7-11, incl. 1 pl. Ja.1931 (Rec'd Ap.) no.1.

Tamiya, H.
Eine mathematische betrachtung über die zahlen verhältnisse der in der "Bibliographie von Aspergillus" zusammengestellten publikationen. Bot. Mag. Tokyo. 45: 62-69. F.1931 (Rec'd Ap.) no.2.

Bot. Mag. Tokyo (cont.)

Togashi, K. & Onuma, F.
A new species of Blastospora. Bot. Mag. Tokyo 45: 4-7. illus. Ja.1931 (Rec'd Ap.) no.1.
Blastospora itoana, n.sp.

Brittonia (Lancaster, Pa.)

Hollick, A.
Plant remains from a pleistocene lake deposit in the Upper Connecticut River Valley. Brittonia 1: 35-55. 11 pl. F.1931. no.1.

Howe, M. A. & Taylor, W. R.
Notes on new or little-known marine algae from Brazil. Brittonia 1: 7-33. illus., pl.1-2. F.1931. no.1.

Merrill, E. D.
One-name periodicals. Brittonia 1: 1-5. F.1931. no.1.

Rydberg, P. A.
A short phytogeography of the prairies and Great Plains of Central North America. Brittonia 1: 57-66. 1 col. pl. (map) F.1931. no.1.

Bryologist (Pittsburg)

Haring, I. M.
Plant growth under electric light. Bryologist 33: 89-91. N.1931 (Rec'd Ap.1931) no.6.

Patterson, P. M.
The mosses of Mt. Desert Island, Maine. Bryologist 33: 83-89. N.1931 (Rec'd Ap.1931) no.6.

Pitman, E. M.
Pohlia proligera in the city. Bryologist 33: 91. N.1931 (Rec'd Ap.1931) no.6.

Sharp, A. J.
A lichen as a substratum for mosses. Bryologist. 33: 83. N.1931 (Rec'd Ap.1931) no.6.
Gyrophora dillenii.

Williams, R. S.
Colombian mosses, apparently undescribed. Bryologist 33: 73-77. pl.x-xiv. N.1930(Rec'd Ap. 1931) no.6.
Leptodontium spinosum, Didymodon killipii, Aptychellia colombica, Microthamnium smithii, Rhytidiadelphus novogranatensis, n.spp.

Bull. Agence Gén. Colon. France (Paris)
Heim de Balsac, F., Dagand, G.S. & Heim de Balsac, H.
Le loko gomme-laque blanche de Madagascar.
Bull. Agence Gén. Colon. France 23: 411-428.
illus., 1 pl. Mr.1931. no.265.

Bull. Conn. Geol. & Nat. Hist. Surv.
Harger, E.B. & others.
Additions to the flora of Connecticut. Bull.
Conn. Geol. & Nat. Hist. Surv. no.48. 94 p. 1930.
(1st supplement to Bulletin 14)

Bull. Dept. Agr. So. Austr.
Spafford, W. J.
Subterranean clover (Trifolium subterraneum).
Bull. Dept. Agr. So. Austr. no.240. 16 p. illus.
1930 (Rec'd Ap.1931)

Bull. Econ. Madagascar (Tananarive)
Bouriquet, G.
Les maladies de l'arachide à Madagascar.
Bull. Econ.Madagascar 27(1930): 295-300. 1930.no.1.
Cercospora personata, Sclerotium rolfsii,
& rosette disease.

Bull. Mens. Soc. Nat. Hort. France. (Paris)
Chevalier, C.
Deux faux Billbergia. Bull. Mens. Soc. Nat.
Hort. France V, 4: 90-92. F.1931.
Aechmea fasciata (Billbergia rhodocyana),
A. lindeni, var. (B.forgetiana).

Bull. Peking Nat. Hist.
Wang, C.
The genera of freshwater algae in Nanking and
Soochow. Bull. Peking Nat. Hist. 5: 27-32.
Mr.1931. no.3.

Bull. Sci. Pharm. (Paris)
Guillaume, A.
L'action des engrais dans la culture des plantes
médicinales à alcaloides. Bull. Sci. Pharm. 38:
168-175. Mr.1931. no.3.

Bull. Sci. Pharm. (cont.)
Lobstein, J. E. & Hesse, P.
Etude botanique, chimique et pharmacodynamique du Toddalia aculeata. Bull. Sci. Pharm. 38: 157-164. illus. Mr.1931. no.3.

Bull. Soc. For. Kyoto Imp. Univ.
Kawada, M.
The outline of forest ecology. Bull. Soc. For. Kyoto Imp. Univ. no.1. 88 p. 6 pl. (2 fold.) Mr.1927. (Rec'd Ap.1931)
In Japanese.

Bull. Soc. Sci. Nat. l'Ouest. France.
Carpentier, A.
Observations sur quelques végétaux fossiles de l'Ouest de la France. Bull. Soc. Sci. Nat. l'Ouest France 39(IV,v.9): 43-51. pl.i-ii. Mr.31,1930 (Rec'd Ap.1931) no.1/4.

Cellulosechemie.
Falck, R.
Der lignin- und cellulose-abbau der laub- und nadelstreu durch fadenpilze aus der klasse der basidiomyceten und seine bedeutung für die bildung der humusstoffe des waldbodens. Cellulose-chemie 11: 198-202. S.14, 1930 (Rec'd Mr.1931) no.9.

Compt. Rend. Acad. Agr. France (Paris)
Capus, J. & Bourdel,
Pluie et mildiou. Compt. Rend. Acad. Agr. France 17: 328-334. Mr.25, 1931. no.10.

Jaguenaud, G.
Recherches sur la dégénérescence de la pomme de terre. Compt. Rend. Acad Agr. France. 17: 318-322. Mr.25,1931. no.10.

Compt. Rend. Soc. Phys. & Hist. Nat. Geneve.
Schopfer, W. H.
Recherches physiologiques sur la sexualité d'un champignon (Phycomyces) Compt. Rend. Soc. Phys. & Hist. Nat. Genève 47: 101-105. Ag./D. 1930 (Rec'd Mr.1931) no.3.
Mucor hiemalis.

Contr. Yale Univ. Osborn Bot. Lab.

Boyce, J. S.
Decay in Pacific Northwest conifers. Contr. Yale Univ. Osborn Bot. Lab. Bull. no.1. 51 p. 19 pl. on 10. 1930 (Rec'd Ap.1931)

Country Life (London)

Cooper, A.
The fantistic orchid. Country Life 69: 446-448. illus. Ap.11, 1931. no.1786.
Ten species illustrated.

Ecology (Brooklyn, N.Y.)

Forbes, E. B. & Bechdel, S.I.
Mountain laurel and rhododendron as foods for the white tailed deer. Ecology 12: 323-333. illus. Ap.1931. no.2.

Holch, A. E.
Development of roots and shoots of certain deciduous tree seedlings in different forest sites. Ecology 12: 259-298. illus. Ap.1931. no.2.

Hursh, C.R. & Haasis, F. W.
Effects of 1925 summer drought on southern Appalachian hardwoods. Ecology 12: 380-386. illus. Ap.1931. no.2.

Kienholz, R.
Effect of environmental factors on the wood structure of lodgepole pine, Pinus contorta Loudon. Ecology 12: 354-379. illus. Ap.1931. no.2.

Fruit World Australasia (Melbourne)

Hammond, A. A.
Control of insect pests and fungus diseases. Fruit World Australasia. 32: 149-152. Mr.1, 1931. no.3.

Flor. Exch. (N.Y.)

Kile, O. M.
One year of plant patent legislation. A glance backward and a survey of future possibilities. Flor. Exch. 76(16):9. Ap.18, 1931. no.16.

Flor. Exch. (cont.)

Nearing, G. G.

An early flowering rhododendron. Flor. Exch. 76(16): 27. Ap.18, 1931. no.16.

Rhododendron irroratum.

Flor. Rev. (Chicago)

Thompson, N. F.

Why treat gladioli? Flor. Rev. 67(1741): 28. Ap.9, 1931.

Stress prevention instead of cure. Treated corms not always best. Grow clean bulblet stock.

Thornton, N. C.

Carbon dioxide prolongs blooms. Flor. Rev. 67(1741): 23-24. illus. Ap.9, 1931.

Fortschr. Landw. (Vienna)

Berthold, Th.

Beitrag zur gewinnung eines guten tabaksaatgutes. Fortschr. Landw. 6: 238-241. illus. Ap.1, 1931. no.7.

Jung, E.

Ein beitrag über missbildungen an roggenähren. Fortschr. Landw. 6: 226-228. illus. Ap.1,1931. no.7.

Zwoboda, A.

Ueber vererbung des saugkraftvermögens bei sommergerste. Fortschr. Landw. 6: 241-243. Ap.1, 1931. no.7.

Gard. Chron. (London)

Anderson, A. W.

Some antipodean forms of Myosotis. Gard. Chron. III, 89: 262-264. illus. Ap.4, 1931.no.2310.

Brown, N. E.

Mesembryanthemum. (cont.) Gard. Chron. III, 89: 259, 279. illus. Ap.4,1931. no.2310, 2311.

Delianthe, Khadia.

The contractile roots of bulbs. Gard. Chron. III, 89: 251. Apr.4,1931. no.2310.

Gard. Chron. (cont.)

Ewell, A. W.
The longevity of seeds. Gard. Chron. III, 89: 283. illus. Ap.11, 1931. no.2311.
In Nelumbium speciosum.

Friend, H.
Horticulture in relation to commerce. VII. The vogue of the poppy. Gard. Chron. III, 89: 280-281. illus. Ap.11, 1931. no.2311.

J.C. Millais. Gard. Chron. III, 89: 269. Ap.4, 1931. no.2310.
Notice of death.

Lemperg, F.
The genus Primula. Gard. Chron. III, 89: 258-259. Ap.4, 1931. no.2310.
Comments on Mr. A.W. Darnell's article.

Small, J.
Revelations of a pocket-lens (cont.) Gard. Chron. III, 89: 278-279. illus. Ap.11, 1931. no.2311.

Spring examination of gladiolus corms for disease. Gard. Chron. III, 89: 265. illus. Ap.4,1931. no.2310.

Ward, F. K.
The Roosevelt expedition in French Indo-China. xiii. The Mekong - to Luang-Prabang. Gard. Chron. III, 89: 260-261. illus. Ap.4,1931. no.2310.

Gartenw. (Berlin)

Steffen, A.
Zuchtrichtungen bei schwertlilien. Gartenw. 35: 170-172. illus. Mr.27,1931. no.13.

Gartn.-Tid. (København)

Weber, A.
Tulipan-rodfiltsvamp. Gartn.-Tid. 47: 165-166. illus. Ap.7,1931. no.14.

Hadar (Palestine Citrogr.) (Jaffa)
Reichert, I. & Littauer, F.
Preliminary disinfection experiments against mould wastage in oranges. Hadar (Palestine Citrogr.) 4: 57-60. Mr.1931. no.3.

Helvetica Chim. Acta (Basel)
Karrer, P. and others.
Pflanzenfarbstoffe XXIX. Die symmetrische lycopinformel. Perhydro-lycopin. Helvetica Chim. Acta 14: 435-438. 1931. no.2.

House and Gard. (Greenwich, Conn.)
Fox, H. M.
Gardens to see in travels abroad. House and Gard. 59(5): 84-85, 128. Mr.1931. no.5.

Indische Cult. (Soerbaja)
Stapelia's. Indische Cult. 16: 195-197. illus. Mr.16, 1931. no.6.

L'Istria Agr. (Parenzo)
Raccamari, F.
Le principali piante foraggere appartenenti alle famiglie delle graminacee e delle leguminosee. L'istria Agr. 11: 119-124. Mr.31, 1931. no.6.

Ital. Agr.(Milan)
Bonvicini, M.
Osservazioni sulla sterilità nel grano. Ital. Agr. 68: 185-190. illus. Mr.1931. no.3.

Briccoli, M.
La classificazione ecologica dei terreni umbri con riferimento al fagiolo comune. Ital. Agr. 68: 165-167. Mr.1931. no.3.

Manaresi, A. & Lanzoni, D.
Influenza del germoglio ascellare sull'allegagione, e della sua cimature sull' accrescimento dei frutti nel pesco. Ital. Agr. 68: 149-152. Mr.1931. no.3.

Pasquinucci, G.
Climatologia, fioritura e fecondazione dei grani (Esperienze e osservazioni). Ital. Agr. 68: 159-164. illus. Mr.1931. no.3.

Journ. Agr. Prat. (Paris)

Lesourd, F.

Histoire des plantes. Le houblon (Humulus lupulus L.) (cont.) Journ. Agr. Prat. 55(1): 292-295. illus. Ap.11, 1931.

Journ. Agr. Res. (Washington, D. C.)

Briggs, F. N.

Inheritance of resistance to bunt, Tilletia tritici, in hybrids of White Federation and Banner Berkeley wheats. Journ. Agr. Res. 42: 307-313. Mr.1, 1931 (Rec'd Ap.18) no.5.

Harris, J. A. & Gunstad, B.

Extension of Pearson's correlation methods to intraclass and intercalss relationships. Journ. Agr. Res. 42: 279-291. Mr.1, 1930 (Rec'd Ap.18) no.5.

Hatfield, I.

Control of moisture content of air and wood in fresh-air chambers. Journ. Agr. Res. 42: 301-305. illus. Mr.1, 1931 (Rec'd Ap.18) no.5.

Jenkins, A. E.

Development of brown canker of roses. Journ. Agr. Res. 42: 293-299. illus., 1 col.pl. Mr.1, 1931 (Rec'd Ap.18) no.5.

Rieman, G. H.

Genetic factors for pigmentation in the onion and their relation to disease resistance. Journ. Agr. Res. 42: 251-278. 3 pl. (2 col.) Mr.1,1931. (Rec'd Ap.18) no.5.

Journ. Amer. Pharm. Assoc. (Easton, Pa.)

Gillis, E. & Langenhan, H. A.

A phytochemical study of Hydrastic canadensis (goldenseal) (cont.) Journ. Amer. Pharm. Assoc. 20: 329-338. Ap.1931. no.4.

Youngken, H. W.

The pharmacognosy, chemistry and pharmacology of Viburnum. II. History, botany and pharmacognosy of Viburnum lentago Linné. Journ. Amer. Pharm. Assoc. 20: 315-328. illus. Ap.1931. no.4.

Journ. Bacteriol. (Baltimore)

Eckhardt, M.McL., Baldwin, I.L. & Fred, E.B.
Studies of the root-nodule organism of lupinus. Journ. Bacteriol. 21: 273-285. Ap.1931. no.4.
Rhizobium lupini (Phytomyxa)

Fulmer, E.I., Williams, A.L. & Werkman, C.H.
The effect of sterilization of media upon their growth promoting properties toward bacteria. Journ. Bacteriol. 21: 299-303. Ap.1931. no.4.

Journ. Biol. Chem. (Baltimore)

Crist, J. W. & Dye, M.
The association of vitamin A with greenness in plant tissue. III. Vitamin A content of asparagus grown under light of various qualities. Journ. Biol. Chem. 91: 127-134. Ap.1931. no.1.

Olcovich, H. S. & Mattill, H.A.
The unsaponifiable lipids of lettuce. Journ. Biol. Chem. 91: 105-117. illus. Ap.1931.no.1.
I. Carotene.

Journ. Bombay Nat. Hist. Soc.

Blatter, E.
A new Ceropegia from the western Ghats. Journ. Bombay Nat. Hist. Soc. 34: 936. pl. Mr.2, 1931. no.4.
C. polyantha.

Blatter, E.
Revision of the flora of the Bombay Presidency XIV. Journ. Bombay Nat. Hist. Soc. 34: 877-900. Mr.2, 1931. no.4.

Blatter, E.
Some notes on the flowering of bamboos. Journ. Bombay Nat. Hist. Soc. 34: 1097-1099. Mr.2,1931. no.4.

Khanna, L. P.
An abnormal fruit of Dipterocarpus tuberculatus, Roxb. Journ. Bombay Nat. Hist. Soc. 34: 1102. Mr.2, 1931. no.4.

Journ. Bombay Nat. Hist. Soc. (cont.)

Laud, D. S.
The fern-palm. Journ. Bombay Nat.Hist. Soc. 34: 1101-1102. illus. Mr.2, 1931. no.4.

Robinson, M.
Flowerless plants. V. Ferns and their allies. (The Pteridophyta). Journ. Bombay Nat. Hist. Soc. 34: 992-1002. 7 pl. Mr.1931. no.4.

Journ. Bot. (London)

Alston, A. H. G.
Cyclophorus lanceolatus (Linn.) Alston, comb. nov. Journ. Bot. 69: 102. Ap.1931. no.820.

Eryngium dorae C. Norman, sp.nov. Journ. Bot. 69: 100-101. pl. Ap.1931. no.820.

Exell, A. W.
The genera of Combretaceae. Journ. Bot. 69: 113-120. Ap.1931. no.820.

Exell, A. W.
Sarcosperma kachinensis (King & Prain) Exell, comb.nov. (Sapotaceae) Journ. Bot. 69: 100. Ap. 1931. no.820.
(Combretum.)

Exell, A. W.
Tisonia whitei Exell, sp.nov. (Flacourtiaceae) Journ. Bot. 69: 99-100. Ap. 1931. no.820.

Exell, A. W.
Xylopia otunga exell, sp.nov. (Annonaceae). Journ. Bot. 69: 99. Ap.1931. no.820.

Exell, A. W.
Xylopia talbotii Exell, sp.nov. (Annonaceae). Journ. Bot. 69: 98-99. Ap.1931. no. 820.

Gepp, A.
Frederick Beatson Taylor (1851-1931) Journ. Bot. 69: 103-104. Ap.1931. no.820.

Groves, J.
On the antheridium of Chara zeylanica Willd. Journ. Bot. 59: 97-98. illus. Ap.1931. no.820.

Journ. Bot. (cont.)

Pugsley, H. W.
The forms of Symphytum tuberosum L.
Journ. Bot. 69: 89-97. Ap.1931. no.820.

Rendle, A. B.
Richard Vowell Sherring (1847-1931).
Journ. Bot. 69: 104-105. Ap.1931. no.820.

Stapf, O.
Ignatz Urban (1848-1931) Journ. Bot.
69: 105-106. Ap.1931. no.820.

Wolley-Dod, A. H.
A revision of the British roses (cont.)
Journ. Bot. v.69, suppl. p.41-48. Ap.1931. no.820.

Journ. Cactus & Succ. Soc. Amer.

Baxter, E. M.
Opuntia gosseliniana, Weber. Journ. Cactus
& Succ. Soc. Amer. 2: 458. illus. Ap.1931. no.10.

Frick, G. A.
Euphorbia tirucalli vs. E. laro. Journ. Cactus
& Succ. Soc. Amer. 2: 453-454. illus. Ap.1931.
no.10.
Author thinks two are synonomous

Walther, E.
Notes on sedum. Journ. Cactus & Succ. Soc. Amer.
2: 455-457. illus. Ap.1931. no.10.

Journ. Counc. Sci. Industr. Res. Australia. (Melbourne)

Cohen, W.E. & Dadswell, H.E.
Investigations into the chemistry of Australian
timbers. Journ. Counc. Sci. Industr. Res. Australia
4: 44-48. F.1931 no.1.

Trout, S.A. & Tomkins, R. G.
The use of acetaldehyde in the storage of fruit.
Journ. Counc. Sci. Industr. Res. Australia 4: 6-11.
F.1931 no.1.

Journ. East Africa & Uganda Nat. Hist. Soc.

Graham, R.M.
Notes on the mangrove swamps of Kenya. Journ. East Africa & Uganda Nat. Hist. Soc. 1929: 157-164. 3 pl. O.1929(Rec'd Ap.1931) no.36.

Hancock, G.L.R. & Soundy, W. W.
Notes on the fauna and flora of northern Bugishu and Masaba (Elgon). Journ. East Africa & Uganda Nat. Hist.Soc. 1929: 165-176. pl.i-vi, 1 map. O.1929(Rec'd Ap.1931) no.36.

Jour. Indian Bot. Soc. (Madras)

Ajrekar, S.L. & Dharmarajulu, K.
A study of the Mucorineae of the city of Bombay. Journ. Indian Bot. Soc. 10:29-34. 1 pl. Ja.1931 no.1.

Blatter, E. & McCann, C.
A new Indian species of begonia. Journ. Indian Bot. Soc. 10: 27-281 1 pl. Ja.1931.no.1.
Begonia phrixophylla.

Chaudhuri, H. & Akhtar, A.R.
The coral-like roots of Cycas revoluta, Cycas circinalis and Zamia floridana and the alga inhabiting them. Journ. Indian Bot. Soc. 10: 43-59. 4 pl. Ja.1931 no.1.

Ghose, S.L.
Five more Myxophyceae from Burma. Journ. Indian Bot. Soc. 10: 35-37. 1 pl. Ja.1931 no.1.
Chamaesiphon filamentosa, Aulosira fertilissima, Tolypothrix limbata cylindrica, nov. var., Scytonema leptobasis, sp.nov., Rivularia natans.

Kisser, J. G.
The preparation of anthracograms from thin sections of fossil plants. Journ. Indian Bot. Soc. 10: 60-62. 1 pl. Ja.1931 no.1.

Parija, P.
Law of modifications. Journ. Indian Bot. Soc. 10: 63-71. Ja.1931 no.1.

Journ. Indian Bot. Soc. (cont.)

Sabnis, T. S.
Notes on Indian plant-teratology. Journ. Indian Bot. Soc. 10: 21-26. 3 pl. 3 pl. Ja.1931. no.1.

Sahni, B. & Singh, T.C.N.
Notes on the vegetative anatomy and female cones of Fitzroya patagonica (Hook, fils) Journ. Indian Bot. Soc. 10: 1-20. illus., 1 pl. (2 p.) Ja.1931 no.1.

Singh, T.C.N.
Studies in the morphology of pollen grain. - I (a). Boraginaceae. Journ.Indian Bot. Soc. 10: 38-42. 1 pl. Ja.1931 no.1.

Journ. Min. Agr. Gt. Brit.(London)

Long, H. C.
Weeds of grass land. V. Journ. Min. Agr. Gt. Brit. 38: 49-54. 8 pl. on 4. Ap.1931.no.1.

Journ. N.Y. Bot. Gard.

Small, J.K.
Botanical crossroads, historic and prehistoric. Journ. N.Y. Bot. Gard. 32: 92-94. Ap.1931. no.376.

Stout, A. B.
Plant hybrids. Journ. N.Y. Bot. Gard. 32 73-92. illus. Ap.1931. no.376.
Abstract of an illustrated lecture given at N.Y. Bot. Gard., Nov.15,1930.

Journ. New Zeal. Inst. Hort.

Oliver, W.R.B.
National botanic gardens. Journ. New Zeal. Inst. Hort. 2: 95-108. 1 pl. Mr.1931. no.4.

Journ. Pomol. & Hort. Sci. (London)

Brooks, F.T. & Brenchley, G. H.
Silver leaf disease. VI. Journ. Pomol. & Hort. Sci. 9: 1-29. illus. Mr.1931. no.1.

Johnstone, K. H.
Observations on the varietal resistance of the apple to scab (Venturia inaequalis, Aderh.) with special reference to its physiological aspects. Journ. Pomol. & Hort. Sci. 9: 30-52. 3 pl. on 2. Mr.1931. no.1.

Journ. Pomol. & Hort. Sci. (cont.)

Marsh, R. W.

Apple scab control in the Bristol Province: field trials, 1930. Journ. Pomol. & Hort. Sci. 9: 53-72. illus. Mr.1931. no.1.

Journ. Roy. Hort. Soc. (London)

Eley, C.

Hedges. Journ. Roy. Hort. Soc. 56: 8-14. 8 pl. on 4. Ja.1931 no.1.

Gersdorff, C.E.F.

New hybrid lilies. Journ. Roy. Hort. Soc. 56: 69-70. Ja.1931 no.1.

Green, D.E.

Experiments and observations on the incidence and control of the black spot disease of roses. Journ. Roy. Hort. Soc. 56: 18-30. 4 pl. on 2. Ja.1931 no.1.

Harley, A.

Nomocharis. Journ. Roy. Hort. Soc. 56: 15-17. 4 pl. on 2. Ja.1931 no.1.

Nothopanax dividi. Journ. Roy. Hort. Soc. 56: 78. pl. Ja.1931 no.1.

Stern, F. C.

Paeony species. Journ. Roy. Hort. Soc. 56: 71-77. 4 pl. on 2. Ja.1931 no.1.

Wilson, G. F.

Insects associated with the seeds of garden. Journ. Roy. Hort. Soc. 56: 31-47. 6 pl. on 3. Ja.1931 no.1.

Journ. Washington Acad. Sci.

Keng, Y.L.

New grasses from China. Journ. Washington Acad. Sci. 21: 155-160. illus. Ap.19, 1931. no.8.

Ischaemum lanceolatum, Rottboellia laevispica, Arundinella bidentata, n.spp.

Kranke Pflanze (Dresden)

Glausch, R.

Die wassersuchtkrankheit an jungen heerenobsthochstämmen. Kranke Pflanze 8: 35-36. Mr. 1931. no. 3.

Ludwigs, K.

Die bekämpfung von krankheiten und schädlingen an gemüsepflanzen. Kranke Pflanze 8: 40-44. Mr. 1931. no.3.

Landw. Jahrb. (Berlin)

Berkner, F.W. & Schlimm, W.

Untersuchungen über den einfluss des kalis auf die standfestigkeit des getreides. Landw. Jahrb. 73: 503-520. 1931. no.3.

Leafl. Dept. Agr. Punjab.

The early blight of potatoes and its control. Leafl. Dept. Agr. Punjab 83. 2 p. 1930 (Rec'd Ap.1931)

Madras Agr. Journ.

Jagannatha Rao, C.

The immediate effect of artificial self-fertilization on some economic characters of the cotton plant. Madras Agr. Journ. 19: 114-119. diagrs. Mr.1931. no.3.

Malayan Agr. Journ. (Kuala Lumpur)

Milsum, J.N. & Greig, J.L.

Pollination of oil palms under field conditions. Malayan Agr. Journ. 19: 123-127. Mr.1931. no.3.

Meded. Inst. Plantenz. Dept. Landb. &c. Nederl. Indie (Wettevreden)

Leefmans, S.

Ziekten en plagen der cultuurgewassen in Nederlandsch-Indië in 1929. Meded. Inst. Plantenz. Dept. Landb. & Nederl. Indie. no.79. 100 p. 1930.

Meded. Proefst. Vorstenl. Tabak. Java. (Klaten)

Tollenaar, D. & Middelburg, H. A.

Grondslagen en resultaten der tegenwoordige veredeling bij de vorstenlandsche tabak (Principles and results of recent tobacco-breeding in the Vorstenlanden) Meded. Proefst. Vorstenl. Tabak Java. no.63. 88 p. incl. 14 pl. on 7. 1930(Rec'd Ap.1931)

English summary: p.85-88.

Mid-Pacific Mag.

Craib, B.
The flora and vegetation of Siam. Mid-Pacific Mag. 41: 329-335. Ap.1931. no.4.

Reynolds, P. K.
A brief history of the banana. Mid-Pacific Mag. 41: 345-350. illus. Ap.1931. no.4.

Nachr. Schädlingsbekämpfung. (Leverkusen b. Köln a Rh.)

Kramer, O.
Die anwendung neuer rebschädlingsbekämpfungsmittle in der württembergischen praxis. Nachr. Schädlingsbekämpfung 6: 1-10. illus. Mr.1931. no.1.

Niehsen,
Pestwurzbekämpfung mit hedit. Nachr. Schädlingsbekämpfung 6: 20-24. illus. Mr.1931. no.1.
Petasitis officinalis.

O'Brien, D. G.
Die braunfleckigkeit des hafers (Helminthosporium avenae). Nachr. Schädlingsbekämpfung 6: 18-20. illus. Mr.1931. no.1.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)

Rothe, G.
Rustkladiumschaden an eingelagerten fruchten. Nachrichtenbl. Deut. Pflanzenschutzd. 11: 27-29. illus. Ap.1931. no.4.

Nat. Canad. (Quebec)

Armours, O.C.d'
La theorie des chromosomes. Son origine - Son explication - Sa valeur - Son utilité. (cont.) Nat. Canad. 58: 84-91. Ap.1931. no.4.

Pomerleau, R.
Notes sur quelques maladies des arbres forestiers du Québec. Nat. Canad. 58: 73-82. Ap. 1931. no.4.

Nat. Hort. Mag. (Washington, D.C.)

Armstrong, J. T.
Primulas. II. Nat. Hort. Mag. 10: 89-99. illus. Ap.1931. no.2.

Nat. Hort. Mag. (cont.)

Correvon, H.
The sempervivums -- les joubarbes. Nat. Hort. Mag. 10: 120-125 incl. 2 pl. Ap.1931. no.2.

Eastwood, A.
The true species of fuchsia cultivated in California. Nat. Hort. Mag. 10: 100-104, incl. 2 pl. illus. Ap.1931. no.2.

Foote, E.
The new pink-tone daffodils. Nat. Hort. Mag. 10: 113-117. illus. Ap.1931. no.2.

Gersdorff, C. E. F.
Another American achievement in plant breeding. White delphiniums. Nat. Hort. Mag. 10: 118-119. illus. Ap.1931. no.2.

Purdy, C.
The influence of fire on western American flora. Nat. Hort. Mag. 10: 130-133. Ap.1931. no.2.

Rountree, L.
Some California Castilleias. Nat. Hort. Mag. 10: 112-113. illus. Ap.1931. no.2.

Russell, P.
Prunus serrulata Lindl. variety Ichiyo. Oriental cherry. Nat. Hort. Mag. 10: 144-146, incl.pl. Ap.1931. no.2.

Truax, A. L.
Some unusual wild flowers of the northern Great Plains. Nat. Hort. Mag. 10: 104-106. Ap. 1931. no.2.

White, E. B.
A note on peony species. Nat. Hort. Mag. 10: 128-130. Ap.1931. no.2.

Natur u. Mus. Ber. Senckenb. Naturf. Ges. (Frankfurt a.M.)

Körner, O.
Ueber anheftungsstellen von algen auf den schalen von wasserschnecken. Natur u. Mus. Ber. Senckenb. Naturf. Ges. 61: 70-71. illus. F. 1931(Rec'd Ap.) no.1.

Natur. u. Mus. Ber. Senckenb. Naturf. Ges. (cont.)

Kornmann, P.

Die entstehung neuer pflanzenarten durch verdoppelung der chromosomenzahl. Natur u. Mus. Ber. Senckenb. Naturf. Ges. 60: 571-577. illus. D.1930 (Rec'd Ap.1931) no.12.

Kräusel, R.

Bast und kautschuk in der deutschen braunkohle Natur. u. Mus. Ber. Senckenb. Naturf. Ges. 61: 92-95. illus. F.1931 (Rec'd Ap.) no.2.

Möbius, M.

Der ginkgo und die "chichi". Natur u. Mus. Ber Senckenb. Naturf. Ges. 61: 32-33. illus. Ja.1931 (Rec'd Ap.)no.1

Nature (London)

Rendle, A. B.

Mr. Spencer Le M. Moore. Nature 127: 528. Ap.4, 1931. no.3205.

Notice of death

Nature Mag. (Washington, D. C.)

Coker, W. C.

What nature gave to Carolina. Concerning plants of coast, sand hill, piedmont and peak. Nature Mag. 17: 294-297, 345-347. illus. Mr.1931. no.5.

Naturforsch. (Berlin)

Hennig,

Gestielte becherlinge. Macropodia corium Weberbauer und Macropodia macropus Persoon. Naturforsch. 8: 24-25. pl.4. Ap.1931. no.1.

Lakowitz, C.

Die vegetation der Ostsee. Naturforsch. 8: 19-22. illus., pl. iii. Ap.1931. no.1.

Naturwissensch. (Berlin)

Mayer, A.

Der holländische botaniker, bakteriologe und biologe M.W. Beijerinck. Naturwissensch. 19: 302-305. Ap.3, 1931. no.14.

Rosendahl, F.

Die entstehung der kohle im lichte der chemischen und biologischen forschung. Naturwissensch. 19: 281-289. Mr.27,1931. no.13.

New Flora & Silva.(London)

Comber, H. F.
Plant-collecting in Tasmania. II. New Flora & Silva 3: 165-176. 5 pl. on 3. Ap. 1931. no.3.

Cox, E. H. M.
Notes on the effect of cold in the north. New Flora & Silva. 3: 211-316. Ap.1931. no.3.

Gabrielson, I. N.
Some North American dwarf phlox. New Flora & Silva 3: 157-164. 2 pl. on 1. Ap.1931. no.3.

Grove, A.
The genus Fritillaria. New Flora & Silva 3: 147-153. 2 pl. on 1. Ap. 1931. no.3.

Ingwersen, W.
European primula hybrids in nature. New Flora & Silva 3: 201-208. 2 pl. on 1. Ap.1931. no.3.

Johnstone, G. H.
Rhododendron sinogrande at Trewithen. New Flora & Silva 3: 154-156. 2 pl. on 1. Ap.1931. no.3.

Lofthouse, T. A.
Two Spanish pyrethrums. New Flora & Silva 3: 209-210. Ap. 1931. no.3.
Pyrethrum radicana, P. hispanicum.

Schacht, W.
Iris bosniaca. New Flora & Silva 3: 182-183. illus. Ap.1931. no.3.

Wall, A.
Ranunculus chordorhizos, Hook. F. New Flora & Silva 3: 182. 1 pl. Ap.1931. no.3.

New Jersey State Hort. Soc. News. (New Brunswick, N.J.)

Blake, M. A.
Varieties of peach vary in the degree of bud set. New Jersey State Hort. Soc. News 12: 375-376. illus. Mr.1931. no.2.

North West.Nat. (Arbroath, Scotland)

Hartley, I. & Ellis, H.
Can Lathraea squamaria have a saprophytic existence. North West.Nat. 6: 29-30. Mr. 1931. no.1.

Murray, J.
Cumberland mosses. (cont.) North West. Nat. 6: 31. Mr.1931. no.1.

Weiss, F. E.
The post-glacial history of European woodlands. North West.Nat. 6: 6-10. illus. Mr.1931. no.1.

Oesterr. Bot. Zeitschr. (Wien)

Höfler, K.
Hyoptonietod und osmotische resistenz einiger rotalgen. Oesterr. Bot. Zeitschr. 80: 51-71. Mr.1, 1931. no.1.

Hruby, J.
Melanopus (Polyporus) rhizophilus (Pat.) in Mähren. Oesterr. Bot.Zeitschr. 80: 72-73. illus. Mr.1, 1931. no.1.

Nawaschin,S.G. Oesterr. Bot. Zeitschr. 80: 80 Mr.1,1931.no.1.
Notice of death.

Porsch, O.
Crescentia — eine fledermausblume. Oesterr. Bot. Zeitschr. 80: 31-44. 2 pl. on 1. Mr.1, 1931. no.1.

Rohrhofer, J.
Morphologische studien an den staminodien der Bignoniaceae. Oesterr. Bot. Zeitschr. 80; 1-30. 8 pl. on 4. Mr.1,1931. no.1.

Schnarf, K.
Ein beitrag zur kenntnis der samenentwicklung der gattung Cochlospermum. Oesterr. Bot. Zeitschr. 80: 45-50. illus. Mr.1,1931. no.1.

Viguier, R. Oesterr. Bot. Zeitschr. 80: 80. Mr.1,1931.no.1.
Notice of death.

Oxford For. Mem.

Aldrich-Blake, R. N.

The plasticity of the root-system of Corsican pine in early life. Oxford For. Mem. no.12. 64 p. illus., 10 pl. (1 fold.) 1930.

Researches designed to facilitate the establishment of this tree in Great Britain.

Papers Mich. Acad. Sci.

Baxter, D. V.

The fungi and the decay of the American chestnut. Part I. Papers Mich. Acad.Sci. 14: 259-290. pl. xxxii-xlix. 1930.

Baxter, D. V.

A preliminary study of Coleosporium solidaginis (Schw.) Thüm. in forest plantations in the regions of the Lake states. Papers Mich. Acad. Sci. 14: 245-258. pl. xxvi-xxxi. 1930.

Philipp. Agr. (Los Baños)

Sulit, M. D.

Some tree-destroyers belonging to the mistletoe family (Loranthaceae). Philipp. Agr. 19: 665-673, incl. 3 pl. Mr.1931. no.10.

Philipp. Journ. Sci. (Manila)

Ames, O. & Quisumbing, E.

New or noteworthy Philippine orchids, I. Philipp. Journ. Sci. 44: 369-383, 16 pl. (2 col.) Ap.1931. no.4.

Reyes, F.R. & Santos, A. C.

The isolation of anonaine from Anona squamosa Linnaeus. Philipp. Journ. Sci. 44: 409-410. Ap. 1931. no.4.

Santos, J. K.

Anomalous stem structure in Archangelisia flava and Anamirta cocculus from the Philippines. Philipp. Journ. Sci. 44: 385-407. 8 pl. Ap.1931. no.4.

Phtopath. Zeitschr. (Berlin)

Schaffnit, E. & Müller, W.

Wechselseitige virusübertragungen innerhalb der familie der solanaceen. Phytopath. Zeitschr. 3: 105-136. illus. 1931. no.2.

Pt.10. Untersuchungen über Viruskrankheiten.

Phytopath. Zeitschr. (cont.)

Stautz, W.
Beitrage zur schleimflussfrage. Phytopath. Zeitschr. 3: 163-229. illus. 1931. no.2.

Zillig, H.
Hans Kniep zum gedächtnis. Phytopath. Zeitschr. 3: 101-104. port. 1931. no.2.

Plant Physiology.

Bay, J. C.
Jean Senebier. 1742-1808. Plant Physiology. 6: 189-193. port. Ja.1931. no.1.

Clark, F. R.
Temperature as a possible factor in regeneration. Plant Physiology 6: 196. Ja.1931. no.1.

Crafts, A. S.
Movement of organic materials in plants. Plant Physiology 6: 1-38. illus., 4 pl. on 2. Ja.1931. no.1.

Davis, W. C.
Phenolase activity in relation to seed viability. Plant Physiology 6: 127-138. illus. Ja.1931. no.1.

Graber, L. F.
Food reserves in relation to other factors limiting the growth of grasses. Plant Physiology 6: 43-71. illus. Ja.1931 no.1.

Green, J. & Johnson, A. H.
Effect of petroleum oils on the respiration of bean leaves. Plant Physiology 6: 149-159. illus. Ja.1931 no.1.

Ingalls, R.A. & Shive, J. W.
Relation of H-ion conecntration of tissue fluids to the distribution of iron in plants. Plant Physiology 6: 103-125. Ja.1931 no.1.

Sayre, J.D. & Morris, V. H.
Use of expressed sap in physiologic studies of corn. Plant Physiology 6: 139-148. illus. Ja. 1931 no.1.

Plant Physiology (cont.)

Skutch, A.F.
Some reactions of the banana to pressure, gravity, and darkness. Plant Physiology 6: 73-102. illus. Ja.1931 no.1.

Taubenhaus, J.J., Ezekiel, W.N. & Rea, H.E.
Strangulation of cotton roots. Plant Physiology 6: 161-166. illus. Ja.1931 no.1.

Tottingham, W.E., Shands, R.G. & Delwiche, E.D.
Tests of Chibnall's method of extraction for investigating winter hardiness of plants. Plant Physiology 6: 167-176. Ja.1931 no.1.

Proc. Maryland State Hort. Soc.

Hootman, H. D.
Recent discoveries in pollination methods and practices and their influence upon greater yields of desirable fruit. Proc. Maryland State Hort. Soc. 33: 24-35. 1931.

Magness, J. R.
What should we do to the soil and to the tree to produce fruit of good size and color? Proc. Maryland State Hort. Soc. 33: 8-18. 1931.

Proc. New Jersey State Hort. Soc.

McLean, H. C.
A profitable solution of the spray residue problem. Proc. New Jersey State Hort. Soc. 1930: 252-257.

Martin, W. H.
Some fruit diseases of the year. Proc. New Jersey State Hort. Soc. 1930: 33-41.
On apple and pear.

Martin, W. H.
Some vegetable diseases in 1930. Proc. New Jersey State Hort.Soc. 1930: 142-146.
On cabbage, sweet corn, peppers, sweet potato.

Haenseler, C. M.
The bacterial canker disease of tomatoes. Proc. New Jersey State Hort. Soc. 1930: 146-150.

Proc. N.Y. State Hort. Soc. (Geneva, N.Y.)

Gloyer, W. O.
The drought of 1930 and its effect upon plant diseases. Proc. N.Y. State Hort. Soc. 76: 4-8. 1931.

Hamilton, J. M.
Some relations of environment of apple scab and its control. Proc. N.Y. State Hort. Soc. 76: 185-189. 1931.

Magness, J. R.
Soil moisture in relation to apple production. Proc. N.Y.State Hort. Soc. 76: 234-239. 1931.

Mills, W. D.
Fruit disease control. Proc. N.Y. State Hort. Soc. 76: 210-212. 1931.

MacDaniels, L. H.
Further experience with the pollination problem. Proc. N.Y. State Hort. Soc. 76: 32-37. 1931.

Phillips, E. F.
Some experiences in the use of bees for pollination. Proc. N.Y. State Hort. Soc. 76: 37-50. maps, 3 tabl 1931.

Streeter, L. H.
Studies on spray residues. Proc. N.Y. State Hort. Soc. 76: 51-54. 1931.

Thomas, H. E.
Fire blight. Proc. N.Y. State Hort. Soc. 76: 98-102. 1931.
On pear.

Proc. West Virginia Acad. Sci.

Gilbert, F. A.
A preliminary report of the slime molds of West Virginia. Proc. West Virginia Acad. Sci. 3: 71-73. Ag.1929(Rec'd F.1931)

Progr. Agr. & Vitic. (Montpellier)

Armet, H.
Calcium et mildiou. Progr. Agr. & Vitic. 95: 355-359. Ap.12,1931. no.15.

Publ. Indiana Dept. Conserv.

Cottman, G. S.

Indiana dunes state park. A history and description. Publ. Indiana Dept. Conserv. no.97. 67 p. illus., plates. 1930.

Rec. Albany Mus.

Dyer, R. A.

New species of Ornithogalum and Albuca from Albany division. Rec. Albany Mus. 4: 111-114. illus. Ja.9,1931 (Rec'd Ap.) no.1.

Ornithogalum unifolium, Albuca bifoliata.

Dyer, R. A.

Notes on Euphorbia species of the eastern Cape Province with descriptions of three new species. Rec. Albany Mus. 4: 64-110. pl.x-xiii. Ja.9, 1931 (Rec'd Ap.) no.1.

Euphorbia cumulata, E. inconstantia, E. curvirama, n.spp.

Dyer, R. A.

Notes on succulent Asclepiadeae, including one new species. Rec. Albany Mus. 4: 115-118. pl.xiv. Ja.9, 1931 (Rec'd Ap.) no.1.

Caralluma maughani, sp.nov., Stapelia peglerae, S. desmetiana fergusonae, var. nov., Huernia zebrina.

Rep. Dept. Agr. India-Burma.

India - Burma. Dept. of agriculture.

Report of the economic botanist for the year ending 31st March 1930. 9 p. 1930 (Rec'd F.1931)

D. Rhind, economic botanist.

India - Burma. Dept. of agriculture.

Report of the mycologist, Burma, Mandalay for the year ended the 31st March 1930. 8 p. 1930 (Rec'd F.1931)

D. Rhind, mycologist.

Rev. Path. Vég. & Entom. Agr. (Paris)

Arnaud, G. & Gaudineau, Mlle. M.

Le carie du blé. Rev. Path. Veg. & Entom. Agr. 18: 37-40. F.1931. no.2.

Arnaud, G. & Bartholet, J.

La maladie de l'orme. Rev. Path. Vég. & Entom. Agr. 18: 28-32. illus., pl. ii. F.1931. no.2.

Graphium ulmi.

Rev. Path. Vég. & Entom. Agr. (cont.)

Charpentier, Ch.
Asphyxie brusque d'un platane. Rev. Path. Vég. & Entom. Agr. 18: 11. F.1931. no.2.

Fron, G. & Monchot, E.
Une maladie des epinards en 1930. Rev. Path. Vég. & Entom. Agr. 18:10-11. F.1931 no.2.

Labrousse, F.
La pourriture du coeur des palmiers en France (Phytophthora) palmivora Butler. Rev. Path. Veg. & Entom. Agr. 18:13-24. illus., pl. i. F. 1931 no.2.

Petit, A.
Traitement des semences de blé contre la carie sélection de varietés résistantes. Rev. Path. Vég. & Entom. Agr. 18: 33-36. F.1931 no.2.

Westenberg, J.
La maladie de l'orme, en Auvergne. Rev. Path. Vég. & Entom. Agr. 18: 24-28. illus. F.1931 no.2.
Graphium ulmi.

Rev. Vitic. (Paris)

Bonnet, J.
Un centre d'etudes de varieties d'oliviers. Rev. Vitic. 74: 233-237. Ap.9, 1931. no.1919.
Bel-Air, Chemin de la Paillade, Montpellier.

Rhodesia Agr. Journ. (Salisbury)

Arnold, H. C.
New strains of oats for southern Rhodesia. Rhodesia Agr. Journ. 28: 278-286. 4 pl. on 1. Mr. 1931. no.3.

Blatt, R. J.
Avocado growing in South Africa. Rhodesia Agr. Journ. 23: 270-277. 1 pl. Mr.1931. no.3.

Rhodora (Boston)

Eaton, R. J.
Peculiar aspects of the New England distribution of Arceuthobium pusillum. Rhodora 33: 92-101. 2 maps. Ap.1931. no.388.

V.13, no.8, p.35.

Rhodora (cont.)

Fernald, M. L.
A new blackberry from New Hampshire.
Rhodora 33: 102-104. Ap.1931. no.388.
Rubus severus Brainerd n.sp. in Gray Herb.

Griscom, L.
Dwarf mistletoe and other plants new to New Jersey. Rhodora 33: 101. Ap.1931. no.388.

Holm, Theo.
The seedling of Hamamelis virginiana L.
Rhodora 33: 81-92. pl.206-207. Ap.1931. no.388.

Sbornik Výzkumn. Ustavu Zeměd. RCS (Recueil Trav. Inst. Rech. Agron. Rép. Tchécosl.) (Prague)

Blattný, C.
Studie o kadeřavosti chmele (Studie über die kräuselkrankheit des hopfens). Sbornik Výzkumn. Ustavu Zeměd RCS(Recueil Trav. Inst. Rech. Agron. Rép. Tchécosl.) v.56. 44p. illus., 10 pl. on 5. 1930.
In Czechoslovakian with German and French summaries: p.36-44.

Domin, K.
Studie o proměnlivosti modřínu v Evropě se zvláštním zřením k Ceskoslovensku. (Studies on the variability of the larch in Europe with special regard to Czechoslovakia) Sbornik Výzkumn. Ustavu Zeměd RCS (Recueil Trav. Inst. Rech. Agron. Rep. Tchecosl.) v.65. illus., 10 pl. on 5. 1930.
In Czechoslovakian with summaries in German and English: p.141-152.

Polanský, B.
Ucinky neobyčejně tuhe zimy v roce 1928-29 na lesni dřeviny. (Die wirkung des ausserordentlich strengen winters im jahre 1928-29 auf die holzarten.) Sbornik Vyzkumn. Ustavu Zeměd RCS (Recueil Trav. Inst. Rech. Agron. Rep. Tchecosl.) v.60. 216 p.illus. 1930. no.3.
In Czechoslovakian with German summary: p.213-216.

Schweiz. Apoth. Zeit.

Menyanthes trifoliata L. Schweiz. Apoth. Zeit. 69: 172-173. Ap.11, 1931. no.15.
Signed: Dr.Ch.B.

Schweiz. Zeitschr. Forstw. (Bern)

Düggeli, M.

Die bakterienflora eines buchenwaldbodens in den verschiedenen jahreszeiten. Schweiz. Zeitschr. Forstw. 82: 116-123. diagrs. Ap. 1931. no.4.

Science (Lancaster, Pa.)

A division of plant pathology at the Rockefeller Institute for Medical Research. Sience 73: 385. Ap.10, 1931. no.1893.

Department of Animal and plant pathology of the Rockefeller institute to be situated at Plainsboro, N. J., Dr. Louis O. Kunkel in charge.

Erdtman, G.

Pollen-statistics: a new research method in paleo-ecology. Science 73: 399-401. Ap.10, 1931. no.1893.

Jones, D. F.

Dioecious maize. Science 73: 432. Ap.17, 1931. no.1894.

Reinke, Johannes.. Science 73: 383. Ap.10,1931. no. 1893.

Notice of death.

Yeager, W. C.

Regarding twist in conifers. Science 73: 392-393. Ap. 10, 1931. no.1893.

Scient. Agr. (Ottawa)

Foster, W. R.

Bacterial fruit blight of the loganberry. Scient. Agr. 11: 529-534. illus. Ap.1931. no.8.

Greaney, F. L.

The influence on yield and grade of harvesting rusted wheat at different stages of maturity. Scient. Agr. 11: 492-511. illus. Ap.1931. no.8.

Sanford, G. B. & Broadfoot, W. C.

Studies of the effects of other soil-inhabiting micro-organisms on the virulence of Ophiobolus graminis Sacc. Scient. Agr. 11: 512-528, incl. 3 pl. Ap.1931. no.8.

Sci. Bull. Dept. Agr. So. Africa
Merwe, C. R. van der
Prickly pear and its eradication. Sci. Bull. Dept. Agr. So. Africa no.93. 32 p. illus. 1931.

Senckenbergiana (Frankfurt a.M.)
Kräusel, R. & Weyland, H.
Ueber pflanzenreste aus dem Devon Deutschlands (Vorläufige mitteilung) Senckenbergiana 12: 217-221. O.25, 1930. no.4/5.

Soil Sci. (Baltimore)
Clark, N. A. & Roller, E. M.
The stimulation of Lemna major by organic matter under sterile and non-sterile conditions. Soil Sci. 31: 299-308. pl. i. Ap.1931. no.4.

Gilbert, B. E. & Pember, F. R.
Further evidence concerning the toxic action of aluminum in connection with plant growth. Soil Sci. 31: 267-273. Ap.1931. no.4.

So. African Gard. (Johannesburg)
Bolus, L.
Plants -- New or noteworthy (cont.) South African Gard. 21: 77. illus. Mr.1931. no.3.
Cyrtanthus fergusioniae, C. flavus n.sp.

Bolus, L.
Wavy-pointed painted lady (Gladiolus cuspidatus, Jac2.) So. African Gard. 21: 75. col. illus. Mr. 1931. no.3.

Tasmanian Journ. Agr.
Bracken poisoning. Tasmanian Journ. Agr. n.s. 2: 38. F.1, 1931. no.1.

Dowson, W. J.
Foot-rot or "take-all", of peas. Tasmanian Journ. Agr. n.s. 2: 47-49. F.1, 1931. no.1

Dowson, W. J.
Fork stab rot of early potatoes. Tasmania Journ. Agr. n.s. 2: 26-29. F.1, 1931 no.1.
Pythium de Baryanum.

Tasmanian Journ. Agr. (cont.)

Hicks, F. W.
Bracken fern control. Tasmanian Journ. Agr. n.s. 2:30-37. illus. F.1, 1931 no.1.

Thomas, P. H.
Apple storage experiments. Tasmanian Journ. Agr. n.s. 2: 5-11. illus. F.1, 1931 no.1.

Tectona (Buitemzprg)

Haan, J. H. de.
Het een en ander over de Tjilatjap'sche vloedbosschen (On the tidal forests of Tjilatjap) Tectona 24: 39-76. pl.48-51. (4 pl. on 2) Ja./Mr. 1931. no.1/3.
English summary: p.75-76.

Tijdschr. Plantenz. (Amsterdam)

Fransen, J. J.
Enkele gegevens omtrent de verspreiding van de door Graphium ulmi Schwarz veroorzaakte iepenziekte door de iepenspintkevers, Eccoptogaster (Scolytus) scolytus F. en Eccoptogaster (Scolytus) multistriatus Marsh in verband met de bestrijding dezer ziekte. Tijdschr. Plantenz. 37: 49-61. pl. v-vii. Mr.1931. no.3.
German summary: p.60-61.

Lindeijer, E. J.
Een bacterie-ziekte van de wilg. Tijdschr. Plantenz. 37: 63-67. Mr.1931. no.3.
Bacterium salicis.

Poeteren, N. van
Geen aantasting door Rhabdocline van Abies pinsapo en Abies nobilis. Tijdschr. Plantenz. 37: 68. Mr.1931. no.3.

Torreya

Ashe, W. W.
Notes on magnolia and other woody plants. Torreya 31: 37-41. Mr./Ap. 1931. no.2.

Harper, R. M.
Exotic plants in forests: supplementary note. Torreya 31: 48-49. Mr./Ap.1931. no.2.

V.13, no.8,p.39.

Torreya (cont.)

Moldenke, H. N.
Interesting plant collections from Somerset County, New Jersey. Torreya 31: 29-36. Mr./Ap. 1931. no.2.

Quisumbing, E.
Water glass as a medium for permanently mounting dissections of herbarium material. Torreya 31: 45-47. Mr./Ap. 1931. no.2.

Smith, E. C.
Ecological observations on Colorado myxomycetes. Torreya 31: 42-44. Mr./Ap. 1931. no.2.

Trans. Illinois State Hort. Soc.

Anderson H. W. & Smith, M. A.
Experiments on apple disease control in 1930. Trans. Illinois State Hort. Soc. 64: 242-257. [1931]

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) (Leningrad)

Adolf, N. A.
... De mehr jährigen arten der gattung Adonis (Untergattung Consiligo D.C.) in U.S.S.R. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 291-356. illus., 6 pl. on 3. 1930 (Rec'd Ap. 1931) no.1.
Russian with German summary: p.355-356.

Beketovsky, D. N.
... Materials for the study of the heterogeneous forms of III Althaea rosea Cav. for. nigra flore pleno, as a heterogeneous variation of I.S. Korzhinsky. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 277-290. illus. 1930 (Rec'd Ap.1931) no.1.
Russian with English summary: 289-290.

Beketovsky, D. N. & Lind, T. P.
... Materials for the study of heterogeneous forms of Hyssopus officinalis I. var. angustifolia M.B. as a heterogeneous form of S. I. Korzhinsky. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 261-276. illus. 1930 (Rec'd Ap.1931) no.1.
Russian with English summary: p.275-276.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) (cont.)

Bereznegovskaya, L.
... On the anatomic structure of the stems of coriander (Coriandrum sativum L.) differing from each other in the size of the root leaf. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen & Plant-breed.) 23: 517-542. illus. 1930 (Rec'd Ap.1931) no.1.
Russian with English summary: p.541-542.

Kreyer, G. K.
... Arznei-Baldrian -- Valeriana officinalis L. -- in Europa und im Kaukasus. Trudy Prikl. Bot., Gen. i. Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 23: 3-237. 22 pl. on 12. 1930 (Rec'd Ap. 1931) no.1.
Russian with German summary: p.216-231.

Kreyer, G. K.
... Materialien zur pharmakologischen bewertung der fingerhüte der flora von U.S.S.R. Trudy Prikl. Bot., Gen. i. Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23:309-384. 1930(Rec'd Ap.1931) no.1
Russian with German summary: p.383-384.

Lvov, N.A. & Yakovleva, S.V.
... Investigation of the seeds of officinal and aromatic plants. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 543-662. illus. 1930(Rec'd Ap.1931) no.1.
Russian with English summary: p.550-662.

Lvov, N. A. & Yakovleva, S.V.
... The study and breeding of peppermint. Trudy Prikl. Bot., Gen. I selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 431-516. illus. 1930(Rec'd Ap. 1931) no.1.
Russian with English summary: p.512-516.

Niloff, V.I. & Williams, W.
... Some material for the investigation of essential oils of wild growing and cultural Crimean plants. Pt.II Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 423-430. 1930. (Rec'd Ap.1931) no.1.
Russian with brief English summary: p.430.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.)(cont.)

Sinowjewa, T. P.

... Adonis in der Krim und seine aktives element. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 357-368. 1930(Rec'd Ap.1931) no.1.

Russian with German summary: p.368.

Wassiljev, W.Ph.

... Zur frage ueber die verbreitung von Salvia sclarea L. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 403-410. 1930(Rec'd Ap.1931) no.1.

Russian with brief German summary: p.410.

Williams, W.

... On the composition of essential oil of the Crimean sage Salvia sclarea I. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 411-422. 1930(Rec'd Ap.1931) no.1.

Russian with brief English summary: p.422.

Zamotayev, N.I.

... Essential oil contents in the fruits of Coriandrum sativum L., in dependence on their maturing. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 23: 385-401. 1930(Rec'd Ap.1931) no.1.

Russian with English summary: p.401.

U.S. Dept. Agr. Circ.

Arcenaux, G. & Gibbens, R. T.

Variety tests of sugarcanes in Louisiana during the crop year 1928-29. U.S. Dept. Agr. Circ. no.162. 24 p. Ap.1931.

U.S. Dept. Agr. Off. Rec.

Plant explorer brings back new soybean varieties from Orient. U.S. Dept. Agr. Off. Rec. 10: 113, 115. port. Ap.11,1931.no.15.

Search for new varieties of soybean by Mr. William J. Morse results in collection of seed and samples of products made from soybean.

Univ. Calif. Publ. Bot. (Berkeley)
Haplerin, M.
A taxonomic study of Poa bulbosa L. Univ. Calif. Publ. Bot. 16: 171-183. 1931. no.6.

Versl. en Meded. Plantenziektenk. Dienst. Wageningen.
Poeteren, N. van
De plantenziektenkundige dienst in Nederland. Versl. en Meded. Plantenziektenk. Dienst Wageningen no.36. 47 p. illus. Mr.1931.

Vict. Nat. (Melbourne)
Coleman, E.
Vegetative reproduction on Spiranthes australis Lindl. Vict. Nat. 47: 176-178. pl.iii. Mr.1931. no.11.

Nicholls, W.H.
A review of certain species of Caladenia. pt.2. Vict. Nat. 47: 179-183. pl.iv. Mr.1931. no.11.

Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth Staatl. Akad. Landw. Gorky)
Doroschkin, N.A.
... Die wirtschaftliche bedeutung des kornbrandes der getreidearten und die bestaubung, tals ein neues mittel seiner bekampfung. Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth. Staatl. Akad. Landw. Gorky) 9: 136-140. illus. 1929 (Rec'd Ap.1931)
In Russian with German summary: p.140.

Goodnew T. N., Korshenewsky, S.K. & Gontscharik, M. H.
... Versuche uber einwirkung von eisensalzen auf das pigmentirende system des chlorophylls. Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth. Staatl. Akad. Landw. Gorky) 9: 126-135. 1929. (Rec'd Ap.1931)
Russian with German summary: p.135.

Kot. S. A.
... Die botanische zusammensetzung der gerstensorten von Belarussj und vom Minskischen kreise. Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth. Staatl. Akad. Lamdw. Gorky) 9: 184-198, incl. 2 maps. 1929 (Rec'd Ap.1931)
In Russian with German summary: p.198.

Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth Staatl. Akad. Landw. Gorky) (cont.)

Lappo, A.L.
... Selbstbefruchtung (autogamie) und fremdbefruchtung (heythonogamie) in zusammenhaug mit der fruchtlosigkeit (sterilisation) Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth. Staatl. Akad. Landw. Gorky) 9: 105-116. illus. 1929 (Rec'd Ap.1931)
Russian with German summary: p.116.

Zeitschr. Indukt. Abstamm. u. Vererbungsl. (Leipzig)

Imai, Y. & Tabuchi, K.
The relative loci of some genes in the variegated chromosome of Pharbitis nil. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 58: 166-168. 1931.no.1.

Koenig, P.
Ein neues verfahren zur herstellung von pflanzenzüchterischen natur-urkunden. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 57: 369-371. 1931. no.4.

Müntzing, A.
Chromosomenvermehrung in Galeopsis-kreuzungen und ihre phylogenetische bedeutung. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 57: 360-362. 1931. no.4.

Oehler, E.
Die ausnutzung von species- und gattungskreuzungen in der weizen- und roggenzüchtung. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 57: 363-369. 1931. no.4.

Schmidt, M.
Experimentelle analyse der genomund plasmonwirkung bei moosen. II. Ueber eine hemihaploide und andere heteroploide rassen von Physcomitrium piriforme (L.) Brid. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 57: 306-342. illus., pl. i-ii. 1931. no.4.

Zeitschr. Pflanzenkr. (Stuttgart)

Lipczkaja, A. D.
Nachweis der überwinternden Oidiumformen (Oidium tuckeri) in den weinbergen der versuchsstation in Anapa (Nord-Kaukasus) Zeitschr. Pflanzenkr. 41: 145-149. illus. Ap.1931. no.4.

Zeitschr. Pflanzenkr. (cont.)

Niethammer, A.
Beizversuche und anatomisch-chemische studien mit den samen des wirsingkohles. Zeitschr. Pflanzenkr. 41: 149-167. illus. Ap.1931. no.4.
Brassica oleracia sabaudica.

Tubeuf, C. von.
Die zahme kastanie als wirt von Viscum album und Loranthus europaeus in Italien. Zeitschr. Pflanzenkr. 41: 202-203. Ap.1931. no.4.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Kubiena, W.
Mikropedologische studien. Wiss. Arch. Landw. Abt. A. Pflanzenbau 5: 613-648, incl. 2 pl. Mr.17, 1931. no.4.

Nessler, H.
Der rotklee, Trifolium pratense. Eine monographie. Wiss. Arch. Landw. Abt. A. Pflanzenbau 5: 649-694. illus. Mr. 17, 1931. no.4.

Exper. Stat. Publ.

Bennett, J. P.
The treatment of lime-induced chlorosis with iron salts. California Agr. Exp. Stat. Circ. 321. 12 p. illus. Mr.1931. (Rec'd Ap.)

Lott, R. V.
Raspberry investigations. A preliminary study. Colorado Agr. Exp. Stat. Bull. 367. 41 p. illus. Ja.1931. (Rec'd Ap.)

Gratz, L. O.
Potato spraying and dusting experiments in Florida, 1924 to 1929. Florida Agr. Exp. Stat. Bull. 222. 39 p. maps. N. 1930 (Rec'd Ap.1931)

Woodruff, J. G.
Cultivated berries. Raspberries, blackberries, dewberries, blueberries. Georgia Exp. Stat. Bull. 166. 32 p. Ja.1931 (Rec'd Ap.)

Iowa. Agricultural experiment station.
Botany and plant pathology. Annual report Iowa Agr. Exp. Stat. 1928/29: 27-29; 1929/30: 23-26. (Rec'd Ap.1931)

Exper. Stat. Publ. (cont.)

Norton, J. B. S.
Maryland grasses. Maryland Agr. Exp. Stat. Bull. 323: 251-326. incl. pl. i-vi. S.1930(Rec'd Ap.1931)

Marshall, R. E.
Black raspberry studies. Michigan Agr. Exp. Stat. Tech. Bull. 111. 32 p. illus. F.1931.

Wells, B. W.
Research in botany. Ann. Rept. North Carolina Agr. Exp. Stat. 53(1929/30): 97-110. illus. 1930(Rec'd Ap.1931)

Ellenwood, C. W.
Bloom period and yield of apples. Ohio Agr. Exp. Stat. Bull. 472. 21 p. illus. F.1931(Rec'd Ap.)

Barss, H. P.
Hop downy mildew in Oregon with suggestions for 1931. Oregon Agr. Exp. Stat. Circ. Inform. no.53. 7 p. Mr.1931.
[Mimeographed]

Cook, M. T.
La roña de la toronja en Puerto Rico. Puerto Rico Estac. Exp. Insul. Circ. 92. 15 p. illus. 1931.

Sherbakoff, C. D. & Andes, J. O.
Apple scab spraying experiments in Tennessee. Tennessee Agr. Exp. Stat. Circ. 37 [4] p. illus. Ap.1931.

Magness, J. R., Overley, F. L. & Luce, W. A.
Relation of foliage to fruit size and quality in apples and pears. Washington Agr. Exp. Stat. Bull. 249. 26 p. F.1931.

State Publications.

Kendall, T. A.
Soil aeration used in treatment for oak root fungus. Month. Bull. Dept. Agr. Calif. 20: 165-166. F.1931. no.2.

State Publications (cont.)

McGregor, E. A.
The effect of sulfur on citrus trees. Month. Bull. Dept. Agr. Calif. 20: 167-170. illus. F. 1931. no.2.

Scott, C. E.
Lessons learned on plant disease control. Month. Bull. Dept. Agr. Calif. 20: 194-195. F.1931. no.2.

Smith, L.
The effect of sulfur on deciduous trees. Month. Bull. Dept. Agr. Calif. 20: 170-171. F.1931. no.2.

Urbahns, T. D.
Effect of lime sulfur on deciduous fruit trees. Month. Bull. Dept. Agr. Calif. 20: 172-176. F. 1931. no.2.

New Books.

Bluhende sukkulenten. Hrsg. E. Werdermann.
mappe 1-2. taf. 1-8. 1930
Mamillaria gulzowiana, M. hahniana, M. poselgeri, M. hidalgensis, Echinocereus pectinatus reichenbachii, E. enneacanthus carnosus, E. pulchellus amoenus, E. subinermis.

Bose, J. C.
Life movements in plants. London, Longmans, Green & Co., 1931. (Trans. Bose Res. Inst. Calcutta, v.vi, 1930-1931.)

Brazil, Agricultura, Industria e commercio, Ministerio da. Serv. Insp. e Foment. Agr.
A exploração do mate. Monographia elaborado pelo servico de inspeccao e fomento agricolas. Rio de Janeiro, 1929.

Bresadola, J.
Iconographia mycologica... v.xv-xvi. Mediolani, 1930.

Canada. Experimental farms - Div. of botany.
Tenth annual report of the prevalence of plant diseases in the Dominion of Canada 1930. 102 p. 1930.
Compiled by I.L. Conners and E.A. Eardley. [mimeographed]

New Books. (cont.)

Decker, S.
Erfolgreicher obstbau in Brasilien. São Paulo, Edanee, 1930.

Ellis, J. C.
Nature index. 5000 selected references to nature forms and illustrations of nature in design, painting and sculpture. Boston, F.W. Faxon Co., 1930.

Hegi, G.
Illustrierte flora von Mittel-Europa... v.7. Gesamtregister. München, J.F. Lehmann, 1931

Illinois. Dept. of conservation.
Forest trees of Illinois. How to know them... 1930. ed.5.

Javorka, S. & Csapody, V.
A magyar flóra képekben (Iconographie florae hungaricae)... v. vii, Budapest, 1930.

Johnson, A. J.
Plant names simplified, their meanings and pronunciation. London, W.H. & L. Collingride, 1931.

Kovalev, N. V.
The institute for plant protection, its problem and structure. Leningrad, 1930.

Lehmann, E. & Aichele, F.
Keimungsphysiologie der gräser (gramineen). Eine lebensgeschichte des reifenden, ruhenden und keimenden grassamens. Stuttgart, F. Enke, 1931.

Lundegardh, H.
Environment and plant development. Being "Klima und boden in ihrer wirkun auf das pflanzenleben" trans. and ed. by E. Ashby. London, E. Arnold & Co., 1931.

New Books (cont.)

Manning, J. W.
The plant buyer's index. 3d ed. Reading, Mass., 1931.

Phillips, E. P.
An introduction to the study of the South African grasses... South Africa, Central News Agency, 1931.

Powell, H. C.
The culture of the orange and allied fruits. South Africa, Central News Agency, 1930.

Rivera, V.
Malattie delle piante... Roma, Libreria di scienze e lettre, 1930.

Rupp, H. M. R.
Guide to the orchids of New South Wales. Sydney, Australia, Angus & Robertson, 1930.

Werdermann, E.
Die pflanzenwelt nord- und mittelchiles. In Karsten, G. Vegetationsbilder 21 r. h. 6/7. pl.31-42. 1931.

Reprints from Journals not yet rec'd or not available

Savulescu, T. & Radulescu, I.
Une nouvelle maladie bacterienne des feuilles du tabac en Roumanie. Bucuresti, 1929. 52 p. illus., xxvii pl. (i col.) (Reprinted from Trav. Inst. Inst. Rech. Agron. Roumanie, O.1929)

Translations filed in Library of Bur. of Plant Industry.

Fawcett, G. L.
Enfermedades de la cãna de azúcar en Tucuman. (Diseases of sugar cane in Tucuman). Bol. Est. Exp. Agr. Tucuman. no.1. 47 p. illus. S.1924.

Koningsberger, V. J.
Over de oorzaak der z.g. "Kalimati-ziekte". (The cause of the kalimati disease). Arch. Suikerind. Nederl.-Indie 39(2): 28-39. Ja.13,1931.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C

Vol. 13, no. 9. Apr. 27-May 9, 1931.

Acta Soc. Bot. Polon. (Warazawa)

Becker, W.A.
Wpływ barwików, stosowanych za zycia, na charakter kinezy somatycznej. II. (Influence des colorants vitaux sur le caractère de la cinèse somatique). Acta Soc. Bot. Polon 7: 276-294. illus., pl.xix. 1930. no.3.
French summary: p.293-294.

Cuchtmanówna, S.
O budowie woreczka zarodkowego Petunia violacea Lindl. (Sur la structure du sac embryonnaire chez Petunia violacea). Acta Soc. Bot. Polon. 7: 197-204. illus. 1930.
French summary: p.202-203.

Dziubałtowski, S.
Le sapin sur la limite septentrionale de son aire en Pologne. Acta Soc. Bot. Polon. 7: 357-379. fold.map. 1930. no.3.

Gorczyński, T.
Dalsze badania nad kleistoganja. II. (Continuation des recherches sur la cléistogamie II) Acta Soc. Bot. Polon. 7: 295-309. illus.,pl.xx-xxi. 1930. no.3.
II. Cardamine chenopodifolia Pers.
French résumé: p.308-309.

Jabłocki, J.
Flora kopalna Wieliczki na tle ogolnych zagadnień paleobotaniki trzeciorzędu. (Die fossile flora von Wieliczka und die allgemeinen probleme der palaeobotanik des Tertiärs). Acta Soc. Bot. Polon. 7: 215-240. 1930. no.2.
German summary: p.236-240.

Kozłowski, A.
Redukcja błekitu metylenowego przez drozdże. (On the reduction of methylene blue by yeast). Acta Soc. Bot. Polon. 7: 157-163. 1930. no.2.
Brief English summary: p.163.
I. Wpływ koncentracji jonów wodorowych i tmperatury (I. The influence of hydrogen ion concentration and of temperature).

Acta Soc. Bot. Polon. (cont.)

Kozłowski, A.
Uproszczona metoda wyizolowania t.zw. glutationu z drożdży. (Eine einfache methode der isolierung des sogenannten glutathions aus hefen). Acta Soc. Bot. Polon. 7: 87-88. 1930. no.2.
Brief German summary: p.88

Krzemieniewscy, H. & Krzemieniewscy, S.
Miksobakterja Polski (Die myxobakterien von Polen) III. Acta Soc. Bot. Polon. 7: 250-273. pl.xvi-xviii. 1930. no.2.
German résumé

Kulesza, W.
Krytyczny przegląd jezyn w zielniku K. Piotrowskiego z r. 1895-96. (Conspectus ruborum regionibus Opatów, Sandomierz et Lwów oriundorum qui in herbario Casimiri Piotrowski continentur) Acta Soc. Bot. Polon. 7:115-125. illus. 1930.no.2.

Lebensbaumówna, J.
Niektóre szczegóły, dotyczace histologji i cytologji osłonki Cisu (Taxus baccata L.) (Quelques détails concernant l'hystologie et la cytologie de l'arille du Taxus baccata L.) Acta Soc. Bot. Polon. 7: 311-328. illus., pl. xxii. 1930. no.3.
French summary: p.325-328.

Mądalski, J.
Krytyczne uwagi o występowaniu Carex incurva Lightf. i Carex chordorrhiza Ehrh. w południowo-wschodniej Europie. (Kritische bemerkungen über das auftreten von C. incurva Lightf. u.C. chordorrhiza Ehrh. im südöstlichen Europa). Acta Soc. Bot. Polon. 7: 205-214. illus. 1930. no.2.
German summary: p.213-214.

Moycho, W.
Badania nad Bacterium prodigiosum. Warunki rozwoju bakterji i występowanie prodogiozyny. (Recherches sur Bacterium prodigiosum. Conditions du développement de la bactérie et la production de la prodigiosine). Acta Soc. Bot. Polon. 7: 337-355. 1930. no.3.
French summary:p.353-354.

Acta Soc. Bot. Polon. (cont.)

Muszýnski, J.
Masowe wystapienie rdzy kozlkowej Puccinia commutata Sydow na hodowanej Valeriana officinalis L. (Das massenhafte auftreten des baldrianrostes auf der kultivierten Valeriana officinalis in Wilno) Acta Soc. Bot. Polon. 7: 89-92. illus. 1930. no.2.
German summary: p.91-92.

Paszewski, A.
Pollenanalytische untersuchung des torfmoores in Lututów bei Wieluń. Acta Soc. Bot. Polon. 7: 329-335. pl. xxiii. 1930. no.3.

Pawłowski, B.
Zapiski florystyczne z Tatr. (Floristische notizen aus der Tatra) III. Acta Soc. Bot. Polon. 7: 127-137. 1930. no.2.

Raniecka, J.
Pollenanalytische untersuchungen des interglazials von Zoliborz in Warschau. Acta Soc. Bot. Polon. 7: 169-182. pl. xiiiA. 1930. no.2.

Skupieński, F. X.
Influence de la température sur la fructification de Didymium nigripes (Fr.) Acta Soc. Bot. Polon. 7: 241-249. illus. 1930. no.2.

Stecki, K. & Kreutzinger, M.
Studja morfologiczne nad formą lawinowa świerka w Tatrach. (Untersuchungen über die lavinenform der fichte in Tatra). Acta Soc. Bot. Polon. 7: 183-195. illus. plxiv-xv. 1930. no.2.
German summary: p.194-195.

Teleżynski, W.
Cycle évolutif du chromosome somatique. I. Acta Soc. Bot. Polon. 7: 381-433. illus. pl.xxiv-xxv. 1930. no.3.
I. Observations vitales sur les poils staminaux de Tradescantia virginiana L.

Acta Soc. Bot. Polon. (cont.)

Teska-Demianowiczowa, Z.
Przyczynek do teratologji i biologji kwiatów storczyków krajowych. (Contribution à la tératologie et biologie des fleurs des orchidées indigènes). Acta Soc. Bot. Polon. 7: 165-167. pl.xiii. 1930. no.2.
French summary: p.167.

Thomaschewski, M.
Pollenanalytische untersuchungen bei Suleczyno in der Kaschubei. Acta Soc. Bot. Polon. 7: 93-102. 1930. no.2.
German summary: p.101-102.

Trzebiński, J.
Rzadkie lub zawleczone rósliny w Polsce. (Seltene oder in der letzten zeit nach Polen eingeschleppte pflanzenarten). Acta Soc. Bot. Polon. 7: 81-86. 1930. no.2.
German summary: p.86.

Wóycicki, S.
Mutacje straków i nasion u fasoli. (Mutations des gousses et des graines chez Phaseolus vulgaris) Acta Soc. Bot. Polon. 7: 103-113. illus., pl.ix. 1930. no.2.
French summary: p.112-113.

Zabłocki, J.
Tertiäre flora des salzlagers von Vieliczka. II. Acta Soc. Bot. Polon. 7: 139-156. illus. pl. x-xiii. 1930. no.2.

Agr. Journ. Brit. Guiana. (Georgetown)

Martyn, E. B.
A botanical survey of the Rapunini development company's ranch at Waranama, Berbice River. Agr. Journ. Brit. Guiana 4: 18-25. 2 pl.on 1. Mr. 1931. no.1.

Amer. Journ. Pharm. (Philadelphia)

Dunn, M. S.
Trees. Amer. Journ. Pharm. 103: 185-207. illus. Ap. 1931. no.4.
Parts D and E deal with the organization and identification of trees.

Amer. Midl. Nat. (Notre Dame, Ind.)
Bush, B. F.
Francis Daniels' grasses. Amer. Midl. Nat. 12: 343-362. My.1931. no.9.

Slavin, A. D.
Notes on new forms of Malus and Crataegus. Amer. Midl. Nat. 12: 363-366. My.1931. no.9.
Malus ioensis f. fimbriata, f.n., M. coronaria f. nieuwlandiana, f.n. Crataegus phaenopyrum f. fastigiata f.n.

Anais Inst. Sup. Agron. Lisboa.
Mello Geraldes, C. de
Aperçu sur le café aux colinies portugaises. Anais Inst. Sup. Agron. Lisboa 4: 1-12. 1930. no.1.

Mello Geraldes, C. de., Almeida, A. de. & Duarte, C.
Contribution à l'étude des caractéristiques des types commerciaux de cafés de l'Angola. Anais Inst. Sup. Agron. Lisboa 4: 13-19. 1930. no.1.

Anales Soc. Cient. Arg. (Buenos Aires)
Albizzati, C. M. & Faura, R.
Datos quimicos sobre Chenopodium quinoa Willd. Anales Soc. Cient. Agr. 111: 137-146. illus. Mr. 1931. no.3.

Ann. Carnegie Mus. Pittsb.
Raup, H. M.
The vegetation of the Fort Reliance sand-plain. Ann. Carnegie Mus. Pittsb. 20: 9-38. vi pl. (2 maps, 1 fold.) O.1930 (Rec'd Ap.1931) no.1.

Ann. Naturh. Mus. Wien.
Rechinger, K. H. jr.
Beitrag zur kenntnis der pilz-flora von Aussee in Steiermark. Ann. Naturh. Mus. Wien. 44: 279-317. 1930.
I. Basidiomycetes.

Wagner, R.
Beiträge zur kenntnis der gattung Koompassia Maing. Ann. Naturh. Mus. Wien. 44: 441-457. illus. 1930.

Wagner, R.
Ueber die verzweigung der Cnesmone javanica Bl. Ann. Naturh. Mus. Wien 44: 39-43. illus. 1930

Ann. Rept. Dept. Agr. Uganda (Kampala)
Hansford, C. J.
Annual report of mycologist. Ann. Rept. Dept. Agr. Uganda 1929: 48-49. 1930.

Arch. Bot. Sist. Fitogeogr. e Gen. (Forli)
Béguinot, A. & Landi, M.
L'endemismo nelle minori isole italiane ed il suo significato biogeografico (cont.) Arch. Bot. Sist. Fitogeogr. e Gen. 7: 39-99. Ap. 1931. no.1.

Bolzon, P.
Sui limiti fra le piante delle Alpi e degli Appennini in Liguria III. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 1-6. Ap.1931. no.1.

Guadagna, M.
Flora capraearum nova flora di Capri (cont.) Arch. Bot. Sis. Fitogeogr. e Gen. 7: 7-38. pl.i-iv. Ap.1931.

Beih. Jahresb. Naturh. Ges. Hannover.
Timm, R.
Die frostschäden des winters 1928-29 in nordwestdeutschland. Beih. Jahresb. Naturh. Ges. Hannover 2: 116-144. 1930.

Witt, K.
Zur waldgeschichte der nacheiszeit im westlichen Harzvorland. Beih. Jahresb. Naturh. Ges. Hannover 2: 98-115. illus. 1930.

Beretn. Landbr. Dept. [Norway]
Jørstad, I.
Beretning om plantesykdommer i land- og hagebruket. VI. Sykdommer pa korn- og engvekster. Beretn. Landbr. Dept. 1928/29: 84 p. 1930.

Ber. Deut. Bot. Ges.(Berlin)
Bachmann, E.
Ueber isidien auf dem lager einer epilithischen Verrucaria. Ber. Deut. Bot. Ges. 49: 110-114. illus. Nr.26, 1931. no.2.

Ber. Deut. Bot. Ges. (cont.)

Gemeinhardt, K.
Organismenformen auf der grenze zwischen radiolarien und flagellaten. Ber. Deut. Bot. Ges. 49: 103-110. Mr.26, 1931. no.2.

Melchior, H.
Ueber das vorkommen der gattung Gentiana, sektion Endotricha, in den peruanischen Anden. Ber. Deut. Bot. Ges. 49: 115-122. Mr. 26, 1931. no.2.

Winkler, H.
Einige bemerkungen über mangrove-pflanzen und den Amorphophallus titanum im Hamburger botanischen garten. Ber. Duet. Bot. Ges. 49: 87-102. pl. vi-ix. Mr.26, 1931. no.2.

Bienn. Rep. Dept. Agr. Tennessee

Bentley, G. M.
Division of plant diseases. Report of state entomologist and plant pathologist. Bienn. Rep. Dept. Agr. Tennessee 1929/30: 101-111. 1931.

Biochem. Journ. (London)

Archbold, H.K. & Widdowson, E. M.
Iodimetric determination of reducing sugars in the apple. Biochem. Journ. 25: 101-116. 1931. no.1.

Collins, G.
Some peculiarities in the glyceride structure of laurel fats. Biochem. Journ. 25: 95-100. 1931. no.1.

Dann, W. J.
The temperature coefficients and energy exchanges of the citric acid dehydrogenase of cucumber seeds. Biochem. Journ. 25: 177-189. 1931. no.1.

Biochem. Zeitschr. (Berlin)

Fodor, A. & Schoenfeld, R.
Darstellung und eigenschaften wässeriger carotinlösungen (Vorläufige mitteilung) Biochem. Zeitschr. 233: 243-244. Ap. 2, 1931. no.1/3.

Biochem. Zeitschr. (cont.)

Lüdtke, M.
Untersuchungen über aufbau und bildung der pflanzlichen zellmembran und ihrer stofflichen komponenten. Biochem. Zeitschr. 233: 1-57. illus. Ap.2, 1931. no.1/3.

Szent-Györgyi, A. & Vietorisz, K.
Bemerkungen über die funktion und bedeutung der polyphenoloxydase der kartoffeln. Biochem. Zeitschr. 233:236-239. Ap.2, 1931. no.1/3.

Biol. Gen. (Vienna)

Kostoff, D. & Popoff, I.
Inheritance of nicotine. Biol. Gen. 7: 283-286. 1931. no.2.

Kostoff, D. & Kendall, J.
Variants and aberrants of Nicotiana tabacum obtained experimentally. Biol. Gen. 7: 271-282. illus., pl.vi-viii. 1931. no.2.

Passecker, F.
Pollenkeimfähigkeit und fruchtbarkeit bei den obstbäumen. Biol. Gen. 7: 251-270. illus. 1931. no.2.

Biol. Zentralbl. (Leipzig)

Geitler, L.
Untersuchungen über das sexuelle verhalten von Tetraspora lubrica. Biol. Zentralbl. 51: 173-187. illus. 1931. no.4.

Bol. Agr. São Paulo.

Hoehne, F. C.
As plantas ornamentaes da flora brasilica e seu papel como factores da salubridade publica, da esthética urbana e artes decorativas nacionaes. (cont.) Bol. Agr. São Paulo 31: 1211-1241. illus. N./D.1930. no.11/12.

Bol. Agr. Tecn. & Econ. Spain. (Madrid)

Barbut, M.
La destrucción de las malas hierbas por los procedimientos quimicos. Bol. Agr. Tecn. & Econ. Spain. 23(265/266): 25-28. Ja./F.1931.

Mas y Guindal, J.
Cantuesos y espliegos. Bol. Agr. Tecn. & Econ. Spain 23(265-266): 29-34. Ja./F.1931.
Species of Lavandula.

Bol. Agr. Tecn. & Econ. Spain. (cont.)
Verplancke, G.
Maduración artificial de los frutos y legumbres. Cultivo forzado de las plantas. Bol. Agr. Tecn. & Econ. Spain 23(265/266): 5-24. Ja./F.1931.

Bolezni Rast. (Morbi Plant.) Leningrad.
Badaeva, P. K.
... Ueber erkrankungen der flachses in Sibirien. Bolezeni Rast. (Morbi Plant.) Leningrad 19: 192-199. 1930. no.3/4.
Russian with brief German summary: p.199.

Kuprianov, V. A. & Gorlenko, M.V.
... Die vegetativen tabakparasiten im gebiet der Drjasgin versuchstation nach den beobachtungen während der vegetationsperiode 1929. Bolezni Rast. (Morbi Plant.) Leningrad 19: 182-192. 1930. no.3/4.
Russian with German summary: p.191-92.

Nestertschuk, G. I.
... Die wälder des Karelien-Murman gebiets und ihre schädlinge. Bolezni Rast. (Morbi Plant.) Leningrad. 19: 159-182. 1930. no.3/4.
Russian with German summary: p.181-182.

Rusinov, P. G.
... Einige daten zur physiologie des zusammenrollens der kartoffelblätter. Bolezni Rast. (Morbi Plant.) Leningrad 19: 148-159. 1930. no.3/4.
Russian with German summary: p.158-159.

Sawsdarg, E. & Jazynina, K.
... Ueber die anwendung von kalkschwefelpräparaten zur bekämpfung von schorf an obstbäumen. Bolezni Rast. (Morbi Plant.) Leningrad 19: 123-148. 1930. no.3/4.
Russian with German summary: p.147.

Teterevnikova-Babajan, D. N.
... Ueber den brenneffekt der fungiziden. Bolezni Rast. (Morbi Plant.) Leningrad 19: 97-122. 1930. no.3/4.
Russian with German summary: p.122.

Botaniste. (Paris)

Dangeard, P.
Nouvelles recherches sur les échanges d'iode des algues marines. Botaniste 23: 196-275. illus. Mr.1931. no.3/4.

Gavaudan, P.
Quelques remarques sur Chlorochromonas polymorpha, spec.nov. Botaniste 23: 276-300. illus. pl. xxi-xxiii. Mr.1931. no.3/4.

Guérin, P.
L'ovule et la graine de l'Erythronium dens--canis L. La polyembryonie. Botaniste 23: 185-195. illus. Mr.1931. no.3/4.

Bull. Agr. Congo Belge. (Bruxelles)

Heim de Balsac, F., Labbe, H. & Lerat,
Sur un point essentiel de la bromatologie du cacao. Ses vitamines les théobromostérols et leur action biologique. Bull. Agr. Congo Belg. 31: 993-995. S.1930 (Rec'd My.7,1931) no.3.

Tynaert, L.
Le jardin botanique d'Eala. Bull. Agr. Congo Belge 31: 720-732. illus., map. S.1930 (Rec'd My.7, 1931) no.3.

Staner, P.
La désinfection des graines de coton. Bull. Agr. Congo Belge 31: 830-832. S.1930 (Rec'd My.7 1931)no.3.

Staner, P. & Verplancke, G.
Un etat pathologique du Sisal au Congo Belge. Bull. Agr. Congo Belge 31: 864-866. S.1930 (Rec'd My.7, 1931) no.3.

Staner, P.
Une maladie étrange des racines du caféier. Bull. Agr. Congo Belg. 31: 919-923. illus. S.1930. (Rec'd My.7,1931) no.3.
Polyporus coffeae

Staner, P.
Quelques maladies de l'Hévéa. Bull. Agr. Congo Belge 31: 649-658. illus. S.1930(Rec'd My.7,1931) no.3.

Bull. Agr. Congo Belge. (cont.)
Tilemans, E.
Les influences de la désinfection des graines de coton sur le développement des maladies. Bull. Agr. Congo Belge 31: 833-837. S.1930(Rec'd My.7, 1931) no.3.

Bull. Cl. Sci. Acad. Roy. Belg. (Bruxelles)
Vandendries, R.
Conduite sexuelle de "Psathyrella disseminata" et essais de détermination des valeurs relatives des réalisateurs sexuels selon Hartmann. Bull. Cl. Sci. Acad. Roy. Belg. V,16: 1235-1249. 1930. no.11.

Vandendries, R.
La conduite sexuelle des Hyménomycètes interprétée par les théories de Hartmann concernant la bisexualité et la relativité sexuelle. Bull. Cl. Sci. Acad. Roy. Belg. V,16: 1213-1234. 1930. no.11.

Wildeman, E. de.
Sphère attractive et centrosome chez des Spirogyra. Bull. Cl. Sci. Acad. Roy. Belg. V,15: 1190-1194. illus. 1930. no.11.

Bull. Dept. Agr. Canada. (Ottawa)
Macoun, W. T.
Hedges and their uses with notes on trees and shrubs tested for hedge purposes at the Central experimental farm, Ottawa; and lists of best hedges at the branch experimental stations. Bull. Dept. Agr. Canada no.142. 44 p. illus. 1931.

Bull. Misc. Inform. Kew. (London)
Additions to the Index kewensis: XI. i.e.XII.
Griffith, Itinerary notes (Posthumous papers, vol. ii, edited by John M'Clelland), 1848. Bull. Misc. Inform. Kew 1931: 199-201. no.4.

Brown, N. E.
Notes upon South African plants. Bull. Misc. Inform. Kew. 1931: 191-197. no.4.

Bull. Misc. Inform. Kew.(cont.)

Craib, W. G. & Geddes, E. T.
Contributions to the flora of Siam. Additamentum. XXX. Bull. Misc. Inform. Kew 1931: 206-221. no.4.

The flora of the Libyan desert. Bull. Misc. Inform. Kew. 1931: 161-166. no.4.
Observations of Mr. W.B.K. Shaw on the vegetation of the Libyan desert and list of plants collected by him.

Francis, W. D.
Two Rutaceae from Queensland and New Guinea. Bull. Misc. Inform. Kew. 1931: 188-191. no.4.
Evodia elleryana, Acronychia muelleri (Evodia)

Howes, F. N.
Turpentine from Pinus merkusii. Bull. Misc. Inform. Kew 1931: 222-223. no.4.

Hypericum lanceolatum. Bull. Misc. Inform. Kew. 1931: 224. no.4.
Signed: J.H.

Kew. Royal gardens
Review of the work of the Royal botanic gardens, Kew, during 1930. Bull. Misc.Inform. Kew. App.I, 1931: 1-57.

Sandwith, N.Y.
Contributions to the floraof Tropical America VI. New and noteworthy species from British Guiana Dilleniaceae-Connaraceae. Bull. Misc. Inform. Kew. 1931: 170-188. no.4.

Smith, C. A.
Suggested conservation of Pollichia. Bull. Misc. Inform. Kew 1931: 198. no.4.

Sprague, T. A.
Anemopaegma rugosum (Schlecht.) Sprague, comb. nov. Bull. Misc. Inform. Kew 1931: 223. no.4.
(Bignonia)

Wakefield, E.M.
Fungi exotici: XXVII. Bull. Misc. Inform. Kew. 1931: 201-206. illus. no.4.

Bull. Mus. Hist. Nat. Paris

Bois, D.
Bananiers d'Abyssinie a feuilles rouges.
Bull. Mus. Hist. Nat. Paris II,2: 688-690.
N.1930 (Rec'd My.7,1931) no.6.

Bois, D.
Floraisons observées dans les serres du Muséum pendant l'année 1930. Bull. Mus. Hist. Nat. Paris II,2: 691-693. N.1930 (Rec'd My.1931) no.6.

Camus, A.
Sur un caractère du genre Lolium. Bull. Mus. Hist. Nat. Paris II,2: 682-683. N.1930 (Rec'd My.1931) no.6.

Guillaumin, A.
Quelques observations a propos des jardins botaniques d'Angleterre et de Belgique. Bull. Mus. Hist. Nat. Paris II,2: 696-697. N.1930 (Rec'd My.1931) no.6.

Chouard, P.
Révision de quelques genres et sous-genres de liliacées bulbeuses d'après le développement de l'appareil végetatif (Scilla, Endymion, Hyacinthus). Bull. Mus. Hist. Nat. Paris II,2: 698-706. N.1930(Rec'd My.1931) no6.

Guillaumin, A.
Plantes nouvelles ou critiques des serres du Museum. Bull. Mus. Hist. Nat. Paris II,2: 694-695. N.1930 (Rec'd My.1931) no.6.
Perrierastrum oreophilum gen.et sp.nov.

Leandri, J.
Révision des thyméléacees de Madagascar.
Bull. Mus.Hist.Nat. Paris II, 2: 668-676. No.1930.
(Rec'd My.1931) no.6.

Malme, G. O. A.
Xyrides indochinensis novae. Bull. Mus. Hist. Nat. Paris II,2: 684-685. N.1930(Rec'd My.1931) no.6.
Xyris intersita, X. subcomplanata.

Bull. Mus. Hist. Nat. Paris (cont.)

Markgraf, F.
Diagnoses de Gnetum nouveaux d'Indo-Chine. Bull. Mus. Hist. Nat. Paris II,2: 686-687. N. 1930 (Rec'd My.1931) no 6.
Gnetum leptostachyum var. elongatum n.var., G. formosum n.sp.

Pellegrin, F.
Lentibulariacées et gesnéracées nouvelles d'Indo-Chine. Bull. Mus. Hist. Nat. Paris II,2: 665-667. N.1930(Rec'd My.1931) no.6.

Tisserant, C.
Note sur deux Indigoferas (Légumineuses-papilionées). Bull. Mus. Hist. Nat. Paris II, 2: 680-681. N.1930(rec'd My.1931) no.6.
Indigofera paniculata, I. bongensis.

Tisserant, C.
Tephrosias nouveaux de l'Oubangui-chari (Légumineuses-papilionées). Bull. Mus. Hist. Nat. Paris II, 2: 677-679. N.1930(Rec'd My.1931) no.6.
Tephrosia le testui, T. moroubensis, T. oubanguiensis.

Bull. Pop. Inform. Arnold Arb.

Chester, K. S.
Graft-blight of lilac. Bull. Pop. Inform. Arnold Arb. III, 5: 5-8. illus. My.2,1931. no.2.

Bull. Soc. Centr. For. Belgique (Bruxelles)

La frutification des arbres forestiers. Note sur la parthénocarpie et la parthénospermie. Bull. Soc. Centr. For. Belgique 38:150-156. Ap. 1931

Bull. U.S. Golf Assoc. Green Sect. (Washington, D.C.)

Monteith, J.
Controlling weeds in putting greens. Bull. U.S. Golf Assoc. Green Sect. 10: 142-155. illus. Ag.1930(Rec'd My.1931) no.8.

Bull. Wild Flower. Preserv. Soc.

American wild flowers. Part 1. Bull. Wild Flow. Preserv. Soc. no.2. pl.1-40. 1931.
State flowers with outline drawings and directions for coloring.

Calif. Citrogr. (Los Angeles)
Fawcett, H.S.
Observations on citrus conditions in Mediterranean countries. IV. Egypt. Calif. Citrogr. 16:339-340. illus. My. 1931. no. 7.

Canad. Field Nat. (Ottawa)
Harper, F.
Some plants of the Athabaska and Great Slave Lake region. Canad. Field Nat. 45: 97-107. illus. My.1931. no.5.

La Cellule. (Lierre, Belgium)
Leliveld, J. A.
Cytological studies in some of the genus Oenothera. La Cellule 40: 195-256. illus.,v pl. (iv fold.) 1931. no.2.

Walker, R.
Fertilization and embryo-development in Hesperophycus harveyanus. La Cellule. 40: 175-192. illus., iii pl. (ii fold.) 1931. no.2.

Chem. & Industr.
Gardner, R.
The essential oils of Metrosideros. Chem. & Industr. 50: 141T-144T. Ap.17,1931. no.16.

China Journ. (Shanghai)
Sowerby, A. de C.
The passing of the Royal botanic society. China Journ. 14: 155-157. Ap.1931. no.4.

Compt. Rend. Soc. Biol. Paris.
King-Li-Pin,
Recherches sur l'action physiologique des gousses de Sophora japonica. Compt. Rend. Soc. Biol. Paris 106: 1033-1034. Ap.16,1931. no.11.

Manceau, P.
Réactions du Penicillium glaucum cultivé sur liquide type de Raulin, additionné de doses croissantes de chlorure de magnésium, métabolisme des sucres et des phytostérols. Compt. Rend. Soc. Biol. Paris 10: 1036-1037. Ap.16, 1931. no.11.

Sigot, A.
Existence de plaquettes osmiophiles périflagellaires chez Euglena gracilis Klebs; leur valeur cytologique. Compt. Rend. Soc. Biol. Paris 106: 1069-1072. illus. Ap.16,1931. no.11.

Contr. Biol. Lab. Sci. Soc. China.
Chien, S. S.
Three new species of orchids from Chekiang.
Contr. Biol. Lab. Soc. China 6: 23-32.
illus., 3 pl. on 3. My.1,1930(Rec'd Ap.1931) no.3.
Cypridelium cathayenum, Oreorchis intermedia,
Liparis cucullata.

Contr. Labor. Bot. Univ. Montreal.
Marie-Victorin, Frère.
L'Anacharis canadensis, Histoire et solution
d'um imbroglio taxonomique. Contr. Labor. Bot. Univ.
Montreal no.18. 43 p. illus. 1931.

Contr. U.S. Nat. Herb. (Washington)
Christensen, C.
Asiatic pteridophyta collected by Joseph F.
Rock 1920-1924. Contr. U.S. Nat. Herb. 26:265-335.
pl.13-29. 1931.

Curt. Bot. Mag.
Curt. Bot.Mag. v.154, pt.3, col.pl.9227-9237.
Ap.25,1931.
Inula magnifica cyclophylla, Gaultheria
caudata, Rhododendron parvifolium, Scilla bithynica,
Lycaste suaveolens, Osmanthus armatus, Chamaelaucium
uncinatum, Piptanthus concolor yunnanensis,
Plectranthus chiradzulensis, Berberis mitifolia,
Codonopsis meleagris.

Dansk Skovforen. Tidsskr. (København)
Larsen, C. S.
Rhabdocline pseudotsugae og Chermes cooleyi
i Skotland. Dansk. Skovforen. Tidsskr. 1931: 169-
182. illus. Ap.1931. no.4.

Explor. & Field-work Smithson. Inst.
Hitchcock, A. S.
A botanical visit to South and East Africa.
Explor. & Field-work Smithson. Inst. 1930: 113-133.
incl. 6 pl.on 5. 1931. no.3111.

Flor. Exch. (N.Y.)

Wister, J. C.
A new arboretum gets under way. Flor. Exch. 76(17): 27. illus. Ap.25,1931. no.17.
Scott arboretum, Swarthmore, Pa.

Flor. Rev. (Chicago)

Guba, E. F.
Diseases of carnations. Flor. Rev. 68(1744): 41-42. Ap.30,1931.
Blight and stem rot.

Weiss, F.
Save calla crop from fungus rot. Flor.Rev. 68(1743): 21-23. illus. Ap.23,1931.

Forstw. Centralbl. (Berlin)

Frühlich, J.
Die wichtigsten krankheiten der bäume und fehler des holzes im südosteuropäischen urwalde. Forstw. Centralbl. 53: 277-285. illus. Ap.15, 1931. no.8.

Fortschr. Landw.(Vienna)

Issatschenko, B.
Ueber die verwendung von farblösungen zur untersuchung der keimfähigkeit der samen. Fortschr. Landw. 6: 257-258. Ap.15, 1931. no.8.

Niethammer, A.
Kann die keimfähigkeit unserer samen ohne keimprobe bestimmt werden? Fortschr. Landw. 6: 258-259. Ap.15,1931. no.8.

Gard. Chron.(London)

Boothman, H.
Pernettya tasmanica. Gard. Chron. III, 89: 301. Ap.18,1931. no.2312.

Brown, N. E.
Mesembryanthemum (cont.) Gard.Chron. III, 89: 294-295. Ap.18,1931. no.2312.
Perissolobus, P. bijlii

Friend, H.
Horticulture in relation to commerce. VIII. The fragrant weed. Gard. Chron. III, 89: 316. Ap.25, 1931. no.2313.

Gard. Chron. (cont.)

Small, J.
Revelations of a pocket-lens. (cont.)
Gard. Chron. III, 89: 313. illus. Ap.25, 1931. no.2313.

Ward, F. K.
The Roosevelt expedition in French Indo-China. XIV. Luang-Prabang. Gard. Chron. III, 89: 298-299. illus. Ap.18, 1931. no.2312.

Gard. Chrom. Amer.

Ellis, E. T.
Sweet-scented shrub species: the Clethras. My.1931. no.5.

Everett, T. H.
Plant portraits. Three little known plants bring beauty to home and garden. Gard. Chron. Amer. 35: 178-180. illus. My.1931. no.5.
Jasminum primulinum, Verbena canadensis, Trichosporum lobbianum.

Genetics

Lammerts, W. E.
Interspecific hybridization in Nicotiana. XII. The amphidiploid Rustica-paniculata hybrid; its origin and cyto-genetic behavior. Genetics. 16: 191-211. My.1931. no.3.

Metz, C. W. & Schmuck, M. L.
Studies on sex determination and the sex chromosome mechanism in Sciara. Genetics 16: 225-253. My.1931 no.3.

Hilgardia (Berkeley, Calif.)

Haas, A.R.C. & Halma, F. F.
Sap concentration and inorganic constituents of mature citrus leaves. Hilgardia 5: 407-424. diagr. Mr.1931. no.13.

Indian For. (Dehra Dun)

Bagchee, K. D.
Problems of forest mycology and pathology in India. Indian For. 57: 166-179. Ap.1931. no.4.

Intern. Bull. Plant Prot.

Belgium: short account of crop disease conditions in 1930. Intern. Bull. Plant Prot. 5: 37-38. Mr.1931. no.3.

India: New diseases reported during the year 1930. Intern. Bull. Plant Prot. 5: 38-39. Mr.1931. no.3.

Latvia: Plant diseases observed in 1930. Intern. Bull. Plant Prot. 5: 39-40. Mr.1931. no.3.

Jahrb. Wiss. Bot. (Leipzig)

Klein, G. & Tauböck, K.

Harnstoff und ureide bei den höheren pflanzen. II. Untersuchungen über das auftreten und verschwinden von harnstoff bei der pflanze. Jahrb. Wiss. Bot. 74: 420-458. illus. Ap.1931. no.3.

Mittmeyer, G.

Studien über die abhängigkeit der transpiration verschiedener blattypen vom licht und sättigungsdefizit der luft. Jahrb. Wiss. Bot. 74: 364-428. Ap.1931. no.3.

Pirschle, K. & Mengdehl, H.

Ionenaufnahme aus salzlösungen durch die höhere pflanze. Jahrb. Wiss. Bot. 74: 297-363. Ap.1931. no.3.

Jahresb. Naturh. Ges. Hannover.

Engelke, K.

Beiträge zur der hannoverschen pilzflora. Jahresb. Naturh. Ges. Hannover 75/80: 1-36. 1930.

Hagemann, E.

Beitrag zur geographischen verbreitung der algen in der umgebung von Hannover. Jahresb. Naturh. Ges. Hannover 75/80: 40-80. map. 1930.

Scheuermann, R.

Berichtigungen zur adventivflora Hannovers. Jahresb. Naturh. Ges. Hannover 75/80: 37-39. 1930.

Journ. Agr. Prat. (Paris)
Lesourd, F.
Histoire des plantes. Le houblon (Humulus lupulus L.) (cont.) Journ. Agr. Prat. 55(1): 317-318. illus. Ap.18,1931. no.16.

Journ. Agr.Res.(Washington, D.C.)
Florell, V. H.
A cytologic study of wheat x rye hybrids and back crosses. Journ. Abr. Res. 42: 341-362. illus. Mr.15, 1931 (Rec'd Ap.29) no.6.

Florell, V. H.
A genetic study of wheat x rye hybrids and back crosses. Journ. Agr. Res. 42: 315-339. illus. Mr.15,1931 (Rec'd Ap.29) no.6.

Stewart, G. & Woodward, R. W.
Inheritance in a wheat cross between hybrid 128 x White Odessa and Kanred. Journ. Agr. Res. 42: 507-520. illus. Ap.15,1931. no.8.

Journ. Bd. Greenkeeping Res. Brit. Golf Unions.
Dawson, R. B. & Evans, T. W.
The eradication of ribwort plantain, yarrow and clover. Journ. Bd. Greenkeeping Res. Brit. Golf Unions 2: 36-40. Mr.1931. no.4.

Dawson, R. B. & Evans, T. W.
Weed eradication on old turf. Journ. Bd. Greenkeeping Res. Brit. Golf Unions 2: 41-43. pl. Mr.1931. no.4.

Journ. Dept. Agr. Ireland (Dublin)
Caffrey, M.
Report of the plant breeding department of University College, Dublin, at the Albert agricultural college, Glasnevin for the season 1928-29. Journ. Dept. Agr. Ireland 30: 106-120. 1931. no. 1.
I. Oats. II.Wheat. III.Barley, IV. Grasses and clovers.

Journ. Dept. Agr. Kyushu Imp. Univ. (Fukuoka, Japan)
Kosaka, H.
Die beziehungen zwischen den verschiedenen physiologischen erscheinungen der pflanzen und den in verschiedenen vegetationsorganen in erscheinung tretenden farbstoffen. II. Ueber die beziehungen zwischen der assimilationstätigkeit und der anthocyanbildung bei Abutilon avicennae. Journ. Dept. Agr. Kyushu Imp. Univ. 3: 29-45. F.15, 1931. no.2.

Journ. Dept. Agr. Victoria (Melbourne)
Fish, S.
"Target spot" of tomato seedlings. A note on the control of the disease in the nursery. Journ. Dept. Agr. Victoria 29: 132-133. illus. Mr. 1931. no.3.

Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo.
Ito, S. & Kuribayashi, K.
The ascigerous forms of some graminicolous species of Helminthosporium in Japan. Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo 29: 85-125. pl. vii-ix. F.1931. no.3.

Journ. Helminth. (London)
Goodey, T.
Leaf-blotch in Verbena venosa caused by Aphelenchus ritzemabosi. Journ. Helminth. 9: 17-20. illus. F.1931. no.1.

Triffitt, M. J.
On the pathogenicity of Heterodera schachtii to potatoes and mangolds. Journ. Helminth. 9: 1-16. illus., 2 pl. on 1. F.1931. no.1.

Journ. Washington Acad. Sci.
Wherry, E. T.
The eastern short-stemmed leatherflowers. Journ. Washington Acad. Sci. 21: 194-198. illus. My.4, 1931. no.9.

Just. Liebigs Ann. Chem. (Berlin)
Wijkman, N.
Ueber einige neue, durch schimmelpilze gebildete substanzen. Just. Liebigs Ann. Chem. 485: 61-73. Ja.14,1931. no.1.

K. Landtbr. Akad. o. Tidskr. (Stockholm)
Lindfors, T.
Försok med utsädesbetning utförda 1924-30. K. Landtbr. Akad. o. Tidskr. 70: 258-304. Ap. 1931. no.2.
German summary: p.303-304.

Maryland Fruit Grow.
Gourley, J. H.
The relation of nitrogen to the storage quality of fruit. Maryland Fruit Grow. 1: 10-14. Ap. 1931. no.3.

Matières Grass. (Paris)
Pieraerts, J. & others.
Contribution à l'étude du voandzou. (cont.) Matières Grass. 23: 9142-9144. Ap. 15, 1931. no.276.

Mem. Torr. Club.
Jackson, H. S.
Present evolutionary tendencies and the origin of life cycles in the Uredinales. Mem. Torr. Club. v.18, no.1. 108 p. F.5,1931. no.1.

Mezögazd. Kutat. Budapest
Gulyas, A.
A magyar dohányfajták osmosisos nyomásának meghatározása. (Saugkraftmissungen an ungarischen tabaksorten) Mezögazd. Kutat. Budapest 4: 93-96. Mr.1931. no.3.
Brief German summary: p.96.

Missouri Bot. Gard. Bull. (St.Louis)
Hunter, M. D.
Notes from the Garden's tropical station, Balboa, C. Z. (cont.) Missouri Bot. Gard. Bull. 19: 69-82. Ap.1931. no.4.

Linder, D. H.
Some diseases of elm trees. Missouri Bot. Gard. Bull. 19: 61-69. pl.16-17. Ap.1931. no.4.

Mitt. Schweiz. Centralanst. Forstl. Versuchsw.
Meyer, K. A.
Geschichtliches von den eichen in der Schweiz. Mitt. Schweiz. Centralanst. Forstl. Versuchsw. 16: 231-450. illus. 1931. no.2.

Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr.
Die gleichzeitige bekämpfung von krankheiten und schädlingen der obstbäume im frühjahr und sommer. (Sommerbehandlung). Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr. no.4. 2 p. illus. [1931]

Osterwalder, A.
Der amerikanische stachelbeermeltau und seine bekämpfung. Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr. no.2. 3 p. illus. [1921]

Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr. (cont.)

Osterwalder, A.
Die blattflecken- oder blattfallkrankheit der quitten. Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr. no.7. illus. F.2, 1931.

Osterwalder, A.
Der gitterrost der birnbäume und seine bekämpfung. Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil. Flugschr. no.8. 3 p. illus. [1931]

Osterwalder, A.
Der schorf und seine bekämpfung. Mitt.Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr. no.1. 4 p. illus. F.31, 1931.

Osterwalder, A. & Schellenberg, H.
Ueber den falschen meltau und den rotbrenner der reben und die bekämpfung dieser krankheiten Mitt. Schweiz. Versuchsanst. Obst- Wein- u. Gartenb. Wädenswil Flugschr. no.6. 4 p. [1931]

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Lange, W.
Betrachtungen über physiognomie und charakter der pflanzen. Möller's Deut. Gärtn.-Zeit. 46: 139-140. Ap.21,1931. no.12.

Mycologia (Lancaster, Pa.)

Bartholomew, E. T.
Herbarium arrangement of mycological specimens. Mycologia. 23: 227-244. illus., pl. 21-22. My./Je. 1931. no.3.

Davis, W. H.
Anthracnose, alternariose and Botrytis rot of the snowberry. Mycologia 23: 159-190. illus. pl. 15-19. My./Je. 1931. no.3.

Jenkins, A. E.
Gloeosporium rosae, a nomen nudum. Mycologia 23: 223-224. My./Je.1931. no.3.

Mycologia (cont.)

Sparrow, F. K. jr.
Observations on Pythium dictyosporum. Mycologia 23: 191-203. illus., pl.20. My./Je. 1931. no.3.

Stevens, F. L.
A comparative study of Sclerotium rolfsii and Sclerotium delphinii. Mycologia 23: 204-222. illus. My./Je. 1931. no.3.

Zeller, S. M.
Amanita calyptrata and Amanita calyptroderma. Mycologia 23: 225-226. My./Je. 1931. no.3.

Nat. Hist. Mag. (London)

Ramsbotton, J.
Jesuits' bark. Nat. Hist. Mag. 3: 17-25. Ja. 1931. no.17.
Cinchona.

Nature (London)

The first sugar of photosynthesis and the rôle of cane sugar in the plant. Nature 127: 634-635. Ap. 25, 1931. no.3208.
Signed J. P.

Eumorfopoulos, N.
Identification of the plant called "narthex". Nature 127: 630. Ap.25, 1931. no.3208.
Ferula communis.

Sheppard, G.
Plankton changes on the coast of Ecuador. Nature 127: 629-630. Ap.25,1931. no.3208.

New Zeal. Journ. Agr. (Wellington)

Adamson, N. J.
Powdery mildew of the apple and its control. New Zeal. Journ. Agr. 42: 176-178. Mr.20,1931. no.3.

Gibbs, J. G.
Dissemination of club-root in the dung of farm stock. New Zeal. Journ. Agr. 42: 193-198. illus. Mr.20,1931. no.3.

Northwest Fruit Grower (Wenatchee)

Overley, F. L. & Overholser, E. L.
Beurre d'Anjou pollination studies in Washington in 1930. Northwest Fruit Grower 3(4): 9, 26. Ap. 1931. no.4.

Overholser, E. L. & Overley, F. L.
Cherry pollination studies in Washington for 1930. Northwest Fruit Grower 3(4): 6, 23. illus. Ap.1931. no.4.

Notes R. Bot. Gard. Edinb.

Airy-Shaw, H. K.
Allia praesertim Sinensia nova vel minus cognita. Notes R. Bot. Gard. Edinb. 16: 135-147. F.1931. no.78.

Becker, W.
New species of Viola from South-East Africa. Notes R. Bot. Gard. Edinb. 16: 147-148. F.1931. no.78.
Viola unwinii, V. nuda.

Handel-Mazzetti, H.
Supplementary notes on Chinese and other species of Androsace. Notes R. Bot. Gard. Edinb. 16: 161-166. F.1931. no.78.

Handel-Mazzetti, H.
Supplementary notes on Chinese species of Lysimachia. Notes R. Bot. Gard. Edinb. 16: 167-169. F.1931. no.78.

Nannfeldt, J. A.
Some notes on the genus Codonopsis Wall. Notes R. Bot. Gard. Edinb. 16: 149-160. illus., pl.ccxxvii-ccxxx. F. 1931. no.78.

Onze Ploeg Landb. Tijdschr. (Leuven)

Derwael, G.
Insectenetende planten. (cont.) Onze Ploeg. Landb. Tijdschr. 10: 10-113. illus. Ap.1931. no.4.

Peterm. Mitt. (Gotha)

Knothe, H.
Spitzbergen eine landeskundliche studie. Peterm. Mitt. Ergänzungsheft no. 211. 109 p. 8 p. (1 fold. col.map) 1931.

Pharm. Zentralh. (Dresden)

Proner, M.
Histochemischer nachweis von cetrarsäure in Lichen islandicus. Pharm. Zentralh. 72: 227. Ap.9, 1931. no.15.

Phytopath.

Bressman, E. N.
Rye infected with bunt of wheat. Phytopath. 21: 437-440. illus. Ap.1931. no.4.

Broadfoot, W. C.
Preliminary experiments on the control of cereal rusts by Kolo dust. Phytopath. 21: 347-372. Ap.1931. no.4.

Leach, J. G.
Further studies on the seed-corn maggot and bacteria with special reference to potato blackleg. Phytopath. 21: 387-406. illus. Ap.1931. no.4.

McClintock, J. A.
Cross-inocculation experiments with Erigeron yellows and peach rosette. Phytopath. 21: 373-386. illus. Ap.1931. no.4.

Smith, R. E.
The life history of Sclerotinia sclerotiorum with reference to the green rot of apricots. Phytopath. 21: 407-423. illus. Ap.1931. no.4.

Stout, A. B.
Emil Godfred Arzberger 1877-1930. Phytopath. 21: 345-346. port. Ap.1931. no.4.

Thomas, H. E. & Thomas, H. E.
Plants affected by fire blight. Phytopath. 21: 425-435. Ap.1931. no.4.

Weston, W. H., jr.
Pharmacion Frechou and the germination of Sclerospora oospores. Phytopath. 21: 441-443. Ap. 1931. no.4.

Proc. Akad. Wetensch. Amsterdam.

Du Buy, H. G.
Ueber die bedingungen, welche die wuchsstoff-produktion beeinflussen. Proc. Akad. Wetensch. Amsterdam 34: 277-288. diagr. 1931. no.2.

Romijn, C.
Ueber den einfluss der temperatur auf die protoplasmaströmung bei Nitella flexilis. Proc. Akad. Wetensch. Amsterdam 34: 289-296. diagrs. 1931. no.2.

Wildervanck, L. S.
Osmotic adaptation of Nitella in saccharose and glucose solutions. Determinations with the aid of Barger's method. Proc. Akad. Wetensch. Amsterdam. 34: 297-308. 1931. no.2.

Proc. Amer. Cranberry Grow. Assoc.

Bergman, H. F.
The relation of oxygen content of water to flooding injury in cranberry culture. Proc. Amer. Cranberry Grow. Assoc. 61: 6-11. Ja.31,1931.

Proc. Leeds Phil. & Lit. Soc, Sci, Sect.

Grainger, J. & Angood, E.
The insect transmission of raspberry mosaic. Proc. Leeds Phil. & Lit. Soc. Sci. Sect. 2: 183-184. illus., 1 pl. Ja.1931. no.4.

Preston, R. D.
The structure of the wall of Valonia ventricosa. Proc. Leeds Phil. & Lit. Soc. Sci. Sect. 2: 184-195. illus. 1 pl. Ja.1931. no.4.

Proc. Nat. Acad. Sci.

Metz, C. W. & Smith, H. B.
Further observations on the nature of the X-prime (X') chromosome in Sciara. Proc. Nat. Acad. Sci. 17: 195-198. Ap.1931. no.4.

Proc. Roy. Soc. Ser.B. (London)

Hanes, C. S.
The physiological action of cyanide. I. Proc. Roy. Soc. Ser.B. 108: 95-118. Ap.2, 1931. no.755.
I. The effects of cyanide on the respiration and sugar content of the potato at 15° C.

Proc. State Hort. Assoc. Pennsylvania (Harrisburg)

Fletcher, S. W.
A history of fruit growing in Pennsylvania I. Proc. State Hort. Assoc. Pennsylvania [Suppl.] 72: 1-26. illus. 1931.

McDaniels, L. H.
The pollination problem. Proc. State Hort. Assoc. Pennsylvania 72: 90-95. 1931.

Kirby, R. S.
A summary of the Pennsylvania apple disease situation for 1930. Proc. State Hort. Assoc. Pennsylvania 72: 8-11. 1931.

Proc. Wash. State Hort. Assoc.

Harley, C. P. & Reeves, E. L.
Observations of apple and pear diseases under overhead irrigation. Proc. Wash. State Hort. Assoc. 26: 48-50. 1930.

Harms, E. L.
Control of perennial weeds in orchards. Proc. Wash. State Hort. Assoc. 26: 104-106. 1930.

Jones, L. K. & Newton, G. A.
Virus diseases of raspberry in Washington. Proc. Wash. State Hort. Assoc. 26: 196-199. 1930.

Palmer, R. C.
Recent progress in the control of Jonathan breakdown. Proc. Wash. State Hort. Assoc. 26: 99-102. 1930.

Progr. Agr. & Vitic. (Montpellier)

Armet, H.
Calcium et mildiou (concl.) Progr. Agr. & Vitic. 95: 378-382. Ap.19, 1931. no.16.

Publ. Puget Sound Biol. Stat. (Seattle, Wash.)

Gran, H. H. & Angst, E. C.
Plankton diatoms of Puget Sound. Publ. Puget Sound Biol. Stat. 7: 417-516. illus. Mr.30, 1931.

Rep. Austral. & New Zealand Assoc. Adv. Sci.

Allan, H. H.
The significance of hybridism in the New Zealand flora. Rep. Austral. & New Zealand Assoc. Adv. Sci. 20: 429-477. illus. 1931.

Rep. North. Nut Grow. Assoc.

Greene, K. W.
The toxic ? effect of the black walnut. Rep. North. Nut Grow. Assoc. 20: 152-155. 1929 (Rec'd Ap.1931)

Slate, G. S.
Filberts in western New York. Rep. North. Nut Grow. Assoc. 20: 73-77. 1929 (Rec'd Ap. 1931)

Stout, A. B.
The pollination problem in nut-bearing trees. Rep. North Nut Grow. Assoc. 20: 64-70. 1929(Rec'd Ap.1931)

Rev. Agr. Com. y Trab. Cuba (Habana)

Martinez, M.
El jardin botanico de la Universidad de Harvard (fundacion Atkins) en Soledad, Cienfuegos, Cuba. Rev. Agr. Com. y Trab. 11(10): 9-13. Ap.1931.

Rev. Gén. Bot. (Paris)

Lenoir, M.
Nature et rapports des composants chromatiques du noyau pendant l'interphase et la prophase chez les phanérogames. Rev. Gén. Bot. 43: 95-119. illus. Mr.1931. no.507.

Loubière, A.
Sur un bois de conifère des faluns de touraine. Rev. Gén Bot. 43: 120-125. pl. 7. Mr.1931. no.507.

Rev. Hort. & Agr. Afrique Nord. (Alger)

Maire, R.
Une maladie de la luzerne nouvelle en Algerie. Rev. Hort. & Agr. Afrique Nord. 35: 98-99. Ap. 1931. no.4.
Rhizoctonia.

Rev. Vitic. (Paris)

Rozier, A.
Le black-rot. Rev. Vitic. 74: 5-10, 21-25, 37-40, 53-56, 69-71. col. pl. Ja.1,8,15,22,29, 1931. no. 1905-1909.

Riv. Ital. Ess. Profumi (Milano)
Mattei, G. E.
Di alcune piante officinali esistenti in Italia. Riv. Ital. Ess. Profumi 13: 98-99. illus. Ap.15, 1931. no.4.

Rubber Res. Scheme, Ceylon. Circ.
Murray, R. K. S.
The control of Oidium leaf disease. Rubber Res. Scheme, Ceylon. Circ. 7: 78-87. N.1930(Rec'd Ap.1931). no.4.

Sbornik Ceskoslov. Akad. Zemed. (Praha)
Klika, J.
O rostlinných společenstvech a jejich sukcesi na obnažených písčných půdách lesních ve střednim Polabi (Die pflanzengesellschaften und ihre sukzession auf den entblössten sandböden in dem mittleren Elbetale). Sbornik Ceskoslov. Akad. Zeměd. 6: 277-302. illus. 1931. no.2.
German summary: p.295-302.

Science (Lancaster, Pa)
Abell, C. A. & Hursh, C. R.
Positive gas and water pressure in oaks. Science 73: 449. Ap.24, 1931. no.1895.

Koehler, A.
More about twisted grain in trees. Science 73: 477. My.1, 1931. no.1896.

Lowry, M. W. & Tabor, P.
Sap for analysis by bleeding corn plants. Science 73: 453. illus. Ap.24, 1931. no.1895.

Sci. Rep. Agr. Res. Inst. Pusa
Mitra, M.
Report of the imperial mycologist. Sci. Rep. Imp. Inst. Agr. Res. Pusa 1929/30: 58-71. 1931.

Shaw, F. J. F.
Report of the imperial economic botanist. Sci. Rep. Imp. Inst. Agr. Res. Pusa 1929/30: 10-32. 1931.

Sci. Rep. Agr.Res. Inst. Pusa (cont.)
Venkatraman, T.S.
Report of the government sugarcane expert.
Sci. Rep. Imp. Inst. Agr. Res. Pusa 1929/30:
147-157. pl. vi-vii. 1931.

Walton, J.H.
Report of the imperial agricultural bacteriologist
Sci. Rep. Imp. Inst. Agr. Res. Pusa 1929/30: 49-57.
1931.

Scott. Journ. Agr. (Edinburgh)
Findlay, W. M.
A disease-resisting turnip. Scott. Journ. Agr.
14: 173-183. 1 pl. Ap.1931. no.2.
The Bruce.

So.African Gard. (Johannesburg)
Blatt, R.J.
The growing of palms. So. African Gard. 21:
96-98. illus. Ap.1931. no.4.

Bolus, L.
Autumn painted lady (Gladiolus tabularis, Eckl.).
So. African Gard. 21: 94. col. illus. Ap.1931. no.4.

Sugar News (Manilla)
Lee, A. & Medalla, M.
P.O.J. 2878 is susceptible to cane smut. Sugar
News 12: 220-221. illus. Ap.1931. no.4.

Trans.Brit. Mycol. Soc. (London)
Blackwell, E.M. & Waterhouse, G.M.
Spores and spore germination in the genus Phytoph-
thora. Trans. Brit. Mycol. Soc. 15: 294-310.
illus. Mr.21, 1931. no.3/4.

Corner, E.J.H.
Studies in the morphology of Discomycetes. V.
The evolution of the ascocarp (cont.) Trans.
Brit. Mycol. Soc. 15: 332-350. Mr.21, 1931. no.3/4.

Green, E.
Observations on certain Ascobolaceae. Trans.
Brit. Mycol. Soc. 15: 321-332. illus. Mr.21,
1931. no.3/4.

Trans. Brit. Mycol. Soc. (cont.)

McDonald, J.
The existence of physiologic forms of wheat stem rust in Africa. Trans. Brit. Mycol. Soc. 15: 235-247. pl.viii. Mr.21, 1931. no.3/4.

Mitra, M.
A comparative study of species and strains of Helminthosproium on certain Indian cultivated crops. Trans. Birt. Mycol. Soc. 15: 254-293. illus., pl.ix. Mr.21, 1931. no.3/4.

Petch, T.
Revision of Ceylon fungi, Pt.IX. Trans. Brit. Mycol. Soc. 15: 247-254. Mr.21, 1931. no.3/4.

Smith, A.L.
Recent lichen literature. Trans. Brit. Mycol. Soc. 15: 193-235. Mr.21, 1931. no.3/4.
List of published literature: p.218-235.

Waterhouse, G.M.
The production of conidia in the genus Phytophthora. Trans. Brit. Mycol. Soc. 15: 311-321. Mr.21, 1931. no.3/4.

Trop. Agriculture West Indies (Trinidad)

Imms, A.D.
Biological control. II. Noxious weeds. Trop. Agriculture West Indies 8: 124-127. My.1931. no.5.

Die Umschau (Frankfurt)

Mayerhofer, E.
Wie belauben sich unsere bäume? Die Umschau 35: 309-310. 1 pl. Ap.18, 1931. no.16.

U.S. Dept. Agr. Circ.

Charles, V.K.
Some common mushrooms and how to know them. U.S. Dept. Agr. Circ. 143. 58 p. illus. Mr.1931.
Revision in part of U.S. Dept. Agr. Bull.175 and Farm. Bull. 796.

U.S. Dept. Agr. Plant Dis. Rep.

Edgerton, C.W.
Entyloma meliloti McAlpine in Louisiana. U.S. Dept. Agr. Plant Dis. Rep.15:31. My.1,1931. no.4. [Mimeographed]

U.S. Dept. Agr. Plant Dis. Rep. (cont.)
Gaines, J.G. & Stevens, N.E.
Downy mildew of tobacco. U.S. Dept. Agr. Plant Dis. Rep. 15: 32-33. map. My.1,1931. no.4.
In Louisiana and Georgia.
[Mimeographed]

Univ. Calif. Publ. Agr. Sci. (Berkeley)
Navashin, M.
Chromatin mass and cell volume in related species. Univ. Calif. Publ. Agr. Sci. 6: 208-230. illus. 1931. no.8.

Navashin, M.
Spontaneous chromosome alterations in Crepis tectorum L. Univ. Calif. Publ. Agr. Sci. 6: 201-206. illus. 1931. no.7.

Verh. u. Mitt. Siebenbürg. Ver. Naturw. Hermannstadt.
Servit, M.
Zur flechtenflora des Südbanats. Verh. u. Mitt. Siebenbürg. Ver. Naturw. Hermannstadt 79/80: 151-161. [1930]

Vierteljahrsschr. Naturf. Ges. Zürich.
Polyz, G.
Eine wahrscheinlichkeitsaufgabe in der pflanzensoziologie. Vierteljahrsschr. Naturf. Ges. Zürich 75: 211-219. D.31, 1930. no.3/4.

Schnyder, A.
Floristische und vegetationsstudien im Alviergebiet. II. Vierteljahrsschr. Naturf. Ges. Zürich Beibl. no.17. p.97-188. 1930.

Výročni Zprávy Výk. Ustavu Zemód RČS (Annuaire Inst. Rech. Agron. Rép. Tchécosl.)
Bratislave. Státne výzskumné ústavy zemedelské v Bratislave - Ústav fytopathologický. In Zprava činnosti státnic...(Rapport sur l'activite des instituts, des stations et autres institutions des recherches agronomiques) Výročni Zpravy Výk. Ustavu Zemód RČS (Annuaire Inst. Rech. Agron. Rép. Tchécosl.) 6(1929): A 295-301. 1930.

Výrocni Zprávy Vyk. Ustavu Zemed RCS (Annuaire Inst. Rech. Agron. Rep. Tchécosl.) (cont.)

Brunn. Moravsky zemsky výzkumny ustav zemedelsky v Brne - Sekce fytopathologicka. In Zprava o činnosti státnich.. (Rapport sur l'activite des instituts, des stations et autres institutions des recherches agronomiques). Výrocni Zprávy Výk. Ustavu Zemed RCS (Annuaire Inst. Rech. Agron. Rep. Tchécosl.) 6 (1929): D 124-128. 1930.

Kosiciach. Státne výskumne ústavy zemedelske v Kosiciach. Ustav fytopathologický. In Zprava o činnosti státnich... (Rapport sur l'activité des instituts, des stations et autres institutions des recherches agronomiques) Výrocyni Zprávy Výzk. Ustavu Zemed RCS (Annuaire Inst. Rech. Agron. Rep. Tchécosl.) 6(1929): A 353-358. 1930.

Prague. Státni vyzkumné ústavy pro výrobu rostlinnou v Praze - Utsav fytopathologický. In Zprava o cinnosti státnich... (Rapport sur l'activité des instituts, des stations et autres institutions des recherches agronomiques Výrocni Zprávy Výzk. Ustavu Zemed RCS (Annuaire Inst. Rech. Agron. Rep. Tchécosl.) 6(1929): A 84-100. 1930.

Zeitschr. Pflanzenernähr. Düng. u. Bodenk. B,Wirtsch.-Prakt.Teil.

Sandrock, W.

Kritische betrachtungen zur blattdiagnose nach Lagatu bei der kartoffel unter besonderer berücksichtigung des im boden durch die keimpflanzenmethode ermittelbaren wurzellöslichen nährstoffvorrates. Zeitschr. Pflanzenernähr. Düng. u. Bodenk. B, Wirtsch-Prakt. Teil. 10: 188-201. Ap.1931. no.4.

Zeitschr. Züchtt. A. Pflanzenzücht. (Berlin)

Archinowitsch, A.S.

Die methodik der isolation und bastardierung bei der zuckerrübe. Zeitschr. Züchtt. A. Pflanzenzücht. 15: 357-365. N.1930 (Rec'd My.1931) no.4.

Baur, E.

Zum tode von Professor Dr. Carl Fruwirth. Zeitschr. Züchtt. A. Pflanzenzücht. 15: 307. port. N.1930 (Rec'd My.1931) no.4.

Zeitschr. Züchtung. A. Pflanzenzücht. (cont.)

Bredemann, G. & Heuser, W.
Beitrage zur heterosis bei roggen. Zeitschr. Züchtung. A. Pflanzenzücht. 16: 1-56. illus. F.1931. no.1.

Dann, B.
Ueber die befruchtungsverhältnisse der bastardluzerne (Medicago media), anderer Medicagoarten und steinklee (Melilotus). Zeitschr. Züchtung. A. Pflanzenzücht. 15: 366-418. N.1930. no.4.

Hess, G.
Vergleichende zweijährige variationsstatistische und morphologische untersuchungen an roggensorten. Ein beitrag zur sortenkunde des roggens. Zeitschr. Züchtung. A. Pflanzenzücht. 16: 57-72. F.1931. no.1.

Isenbeck, K.
Vererbungsstadien an einigen weizenkreuzungen in bezug auf die widerstandsfähigkeit gegenüber Puccinia glumarum tritici und Puccinia triticina. Zeitschr. Züchtung. A. Pflanzenzücht. 16: 82-104. F.1931. no.1.

Kuhn, K.
Die äussere wertigkeit quantitativer eigenschaften in F, und deren phänotypische beeinflussung durch heterosis. Zeitschr. Züchtung. A. Pflanzenzücht. 15: 345-356. N.1930 (Rec'd My.1931) no.4.

Raum, H.
Vergleichende morphologische sortenstudien an getreide. Beiträge zur eigenschaftsanalyse. IV. Zeitschr. Zucht. A. Pflanzenzucht. 15: 309-344. N.1930 (Rec'd My.1931) no.4.

Stummer, A. & Frimmel, F.
Beiträge zur genetik des weinstockes. II. Vererbung der panaschüre. Zeitschr. Züchtung. A. Pflanzenzücht. 15: 431-450. illus. N.1930 (Rec'd My.1931) no.4.

Zeitschr. Züchtt. A. Pflanzenzücht. (cont.)

Troll, H.
Untersuchungen über selbststerilität und selbstfertilität bei grasern. Zeitschr. Züchtt. A. Pflanzenzücht. 16: 105-136. F. 1931. no.1.

Tschermak, E.
Ueber zenien bei leguminosen. Zeitschr. Züchtt. A. Pflanzenzücht. 16: 73-81. illus. F.1931. no.1.

Wacker, J.
Zichorienzüchtung im hohenheimer versuchsfeld in den jahren 1917-1929. Zeitschr. Züchtt. A. Pflanzenzücht. 15: 419-430. N.1930 (Rec'd My. 1931) no.4.

Exper. Stat. Publ.

Smith, R.E. & Hansen, H.N.
Fruit spoilage diseases of figs. California Agr.Exp.Stat. Bull. 506. 84 p. illus. Ja.1931.

Mowry, H. & Toy, L.R.
Miscellaneous tropical and sub-tropical Florida fruits. Florida Agr. Exp.Stat. Bull. 223. 88p. illus. Ja.1931.

Indiana. Agricultural experiment station.
Department of botany. Indiana Agr. Exp. Stat. Rep. Dir. 43: 22-28. illus. Ja.30,1930 (Rec'd Ap.1931)

Osmun, A.V.
Report of the Department of botany. Massachusetts Agr. Exp. Stat. Bull. 271: 241-248. F.1931.

New Jersey agricultural experiment station. Dept. of plant pathology.
Gladiolus corm treatments. Its Nursery Dis. Notes. v.3,no.10. 4 p. Ap.1931. no.10.
Mimeographed

Stevens, O.A.
Impurities of North Dakota Bromus inermis seed. North Dakota Agr. Exp. Stat. Bull. 247. 16 p. illus. F. 1931.

Exper. Stat. Publ. (cont.)

Fraps, G.S.
Variations in vitamin A and chemical composition of corn. Texas Agr. Exp. Stat. Bull. 422. 46 p. Mr. 1931.

Jones, L.K.
The mosaic disease of beets. Washington Agr. Exp. Stat. Bull. 250. 16 p. illus. Mr.1931.

Locklin, H.D. & Newton, G.A.
Head lettuce in Western Washington. Western Washington Exp. Stat. Bull. no.19-W, n.s., 37 p. illus. Ja.1931.
Diseases, p.22-35, by G.A. Newton.

State Publications.

Duruz, W.P.
Peach rust and its control. Month. Bull. Dept. Agr. Calif, 20: 240-248. illus. Mr.1931. no.3.

New Books.

Brand, A.
Borraginaceae- Borraginoideae- Cryptantheae. In Das pflanzenreich, hrsg. Von A. Engler , Leipzig, 1931, h.87, (iv.252).

Fuhrmann, E.
Die pflanze als lebewesen. Eine biographie in 200 aufnahmen. Frankfurt am Main, Societats-verlag 1930.

Graebner, P. & Graebner, P. fil.
Synopsis der mitteleuropäischen flora. Leipzig, Gebruder Borntraeger,1931. (Lfg. 120/121,bd.xii,2.Compositae (Hieradium bearb. von. H. Zahn-Karlsruhe) bog. 11-20)

Heumann, M. & Winkler, H.
Charakterpflanzen aus Südwestafrika. In Karsten. G. Vegetationsbilder 21 r., h. 8, pl. 43-48. 1930.

Kostychev, S.
Kostychev's chemical plant physiology. Trans. and ed. by C.J. Lyon. Philadelphia, P. Blakiston's son & co., 1931.

New Books (cont.)

Lorch, W.
Anatomie der laubmoose. Berlin, Gebrüder Borntraeger, 1931 (Handbuch der pflanzenanatomie ... hrsg. von K. Linsbauer ii abt. 2 teil: Bryphyten, bd. vii/i)

Migula, W.
Kryptogamen-flora bd.12, pt.2. Die flechten lfg. 63/64 1931 (Thome-Migula Flora von Deutschland, Oesterreich und der Schweiz Abt.II)

Ortloff, H.S.
Perennial gardens. New York, Macmillan Co., 1931.

Parker, J.
How to grow fruits and flowers in Oklahoma and the southwest.... Tecumseh, J. Parker, 1931.

Peacock, L.K.
The dahlia. A practical treatise on its habits, characteristics, cultivation and history. New York, Orange Judd Publ. Co., 1931.

Rush, M. W.
The ignoramus garden book. A practical handbook for the beginner. New York, Sears Publ. Co., 1931.

Schiemann, E.
Geschlechts-und artkreuzungsfragen bei Fragaria. Jena, G. Fischer, 1931.

Simson, H. von
Untersuchungen an Pektuser gelbhafer. Ein beitrag zur frage der auslesen aus reinen linien. Kothen, P. Dunnhaupt, 1930.

Stickland, W.W.
Four scientific essays. New York, B. Westermann Co., 1931.
II . Phyllotaxis and composite flowers. The law of the symmetry of composite flowers. IV Notes on fungi. Notes on British fungi.

New Books (cont.)

Wirth, F.A.
Ueber die bestandtheile der blüthen der ringelblume (Calendula officinalis) Wesel, 1891.

Zahlbruckner, A.
Catalogus lichenum universalis. bd.7, bog. 21-30. Leipzig, Gebrüder Borntraeger, [1931]

Reprints from Journals not yet rec'd.

Evans, A.W.
The thallose hepaticas of the Juan Fernandez Islands. Extract from "The natural history of Juan Fernandez and Easter Islands" ed. by C. Skottsberg, v.2, p.551-586. illus. N.1930. Reprinted as no. 12 Contr. Osborn Bot.Lab. 1930.

Translations filed in Library of Bur. of Plant Industry.

Kliucharev, A. & Strazh, R.
...Der einflusse des wachstums der getreidearten auf die bodenreaktion und der bodenreaktion auf die zellsaftazidität dieser pflanzen. (Influence of the growth of grains upon the soil reaction, and of the soil reaction upon the acidity of their sap). Zapiski Belarusk. Dziarzh. Akad. Sel'sk. Gaspad. (Ann. Weissruth. Staatl. Akad.Landw. Gorky) 3: 45-63. 1927.

Kwasnikov, V.V.
...The hydrogen-ion concentration in the juice of spring wheat under different growth conditions. Nauchno-Agron. Zhurn. (Journ. Landw. Wiss. Moskva) 6: 18-36. 1929.

Sibilia, C.
La moria degli olmi prodotta da "Graphium ulmi" Schwarz (The mortality of elms caused by Graphium ulmi (Schwarz). Boll. R. Staz. Patol. Veg. Roma. 10: 311-325. illus. 1931.

Corrections.

v.13, no.6, p.8.
Under Bull. Sci. Pharm. the v. no. should be 34 instead of 33.

v.13, no. 7, p.21.
Under Missouri Bot. Gard. Bull., Hunter, M.D. the v. no. should be 19 instead of 18.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
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RECEIVED
★ JUN 3 1931 ★
U. S. Department of Agriculture

Vol. 13, no. 10. May 11-23, 1931.

Agr. Gaz. N.S.W. (Sydney)
Callaghan, A. R.
A study of anthesis in cultivated oats. Agr. Gaz. N.S.W. 42: 311-321. illus. Ap.1, 1931. no.4.

Agr. Prat. Pays Chauds (Paris)
Costantin, J.
Les maladies du cacaoyer. Agr. Prat. Pays Chauds n.s., 2: 327-340. illus. My.1931. no.11.

Agr. Rev. Agropec. (Madrid)
Benlloch, M. & Cañizo, J. del
La rabia de los garbanzales. Agr. Rev. Agropec. (Madrid) 3: 248-250. illus. Ap.1931. no.28.

Amer. Nat. (Lancaster, Pa.)
Anderson, E.G. & Emerson, R.A.
Inheritance and linkage relations of chocolate pericarp in maize. Amer. Nat. 65: 253-257. My./Je. 1931. no.698.

Bates, J. C.
A method for clearing leaves. Amer. Nat. 65: 288. My./Je. 1931. no.698.
When darkened by preservatives.

Davis, B. M.
Some attempts to obtain haploids from Oenothera lamarckiana. Amer. Nat. 65: 233-242. My./Je. 1931. no.698.

Kaufmann, B. P.
Chromonemata in somatic and meiotic mitoses. Amer. Nat. 65: 280-283. My./Je. 1931. no.698.

Navashin, M.
A preliminary report on some chromosome alterations by x-rays in Crepis. Amer. Nat. 65: 243-252. illus. My./Je. 1931. no.698.

203
USDA
LIB

Annuaire Agr. Suisse.
Staehelin, M.
Les ver nématodes (anguillules), parasites des plantes horticoles et maraîchères. Annuaire Agr. Suisse 32: 37-77. illus. 1931.

Ann. Rep. Rubber Res. Scheme Ceylon.
Murray, R.K.S.
Mycologist's report for 1930. Ann. Rep. Rubber Res. Scheme Ceylon 9(1930): 28-30. 1931.

Arch. Pharm. & Ber. Deut. Pharm. Ges. (Berlin)
Aye, D.
Ueber riechstoffe in pilzen. Arch. Pharm. & Ber. Deut. Pharm. Ges. 269: 246-251. Ap.1931. no.4.

Arch. Rubbercult. Nederl.-Ind. (Batavia, Java)
Pfältzer, A.
Proeven en waarnemingen in verband met de meeldauwbestrijding bij Hevea brasiliensis gedurende 1930. Arch Rubbercult. Nederl.-Ind. 15: 147-169. diagrs. Mr. 1931. no.3.

Bartonia. (Philadelphia)
Death of Dr. Leffmann. Bartonia 12(1930): 59. F.28, 1931.

Pennell, F. W.
On some critical species of the Serpentine Barrens. Bartonia 12(1930): 1-23. F.28, 1931.

Wherry, E. T.
The eastern short-styled phloxes. Bartonia 12(1930): 24-53. illus., pl. 1-3. F.28, 1931.

Better Crops (New York)
Alexander, A. S.
The inquiring mind and the seeing eye. Better Crops 16(5): 13-15, 51-52. port. My. 1931.
Biographical notes about Dr. L. H. Pammel.

Biochem. Zeitschr.(Berlin)
Bodnár, J.
Zur frage nach der zersetzung von nicotin im tabak durch bakterien. Biochem. Zeitschr. 233: 311-317. Ap.22, 1931. no.4/6.

Biol. Rev. & Biol. Proc. Cambridge Phil. Soc.

Harris, T. M.
Rhaetic floras. Biol. Rev. & Biol. Proc. Cambridge Phil. Soc. 6: 133-162. Ap. 1931. no.2.

Bol. R. Soc. Espan. Hist. Nat. (Madrid)

Martínez, M. M.
Contribución al estudio de las Digitales. Bol. R. Soc. Espan. Hist. Nat. 31: 29-38. illus. F.15, 1931. no.1.

Martinez, J. B.
Hongos parásitos y saprofitos de las plantas lenosas de España. Bol. R. Soc. Espan. Hist. Nat. 31: 39-44. illus. F.15, 1931. no.1.

Bot. Arch. (Leipzig)

Müller, F. W.
Vergleichende untersuchungen über den kohlenstoffkreislauf in einem sphagnetum einem erlenbruchboden und einem gartenboden. Bot. Arch. 32: 38-63. Mr.1931. no.1/2.
English abstract: p.63.

Opitz, F.
Beitrag zur kenntnis der holzatmung. Bot. Arch. 32: 209-244. diagrs. Mr.1931. no.1/2.
English summary: p.243.

Rammelberg, G.
Beitrag zur kenntnis des chitins der pilze und krabben. Bot. Arch. 32: 1-37. Mr. 1931. no.1/2.
English abstract: p.36.

Scheel, M.
Karyologische untersuchung der gattung Salvia. Bot. Arch. 32: 148-208. illus., 1 pl.(fold.) Mr. 1931. no.1/2.
English summary: p.205-206.

Wirsching, H.
Versuch eines natürlichen flechtensystems der Cyclocarpineae. Bot. Arch. 32: 64-147. Mr. 1931. no.1/2.
English summary: p.146.

Bot. Gaz. (Chicago)

Costello, D. F.
Comparative study of River Bluff succession on the Iowa and Nebraska sides of the Missouri River. Bot. Gaz. 91: 295-307. illus. My. 1931. no.3.

Davies, P. A.
Distribution of total nitrogen in regeneration of the willow. Bot. Gaz. 91: 320-326. illus. My.1931. no.3.

Hartman, M. E.
Antheridial dehiscence in the Polypodiaceae. Bot. Gaz. 91:252-276. illus. My.1931. no.3.

Langdon, L. M.
Development and vascular organization of the foliar organs of Carya cordiformis. Bot. Gaz. 91: 277-294. illus., pl. i-ii. My. 1931. no.3.

Montgomery, C. E.
Ecology of the mosses of Grand de Tour region of Illinois, with special reference to pH relations. Bot. Gaz. 91: 225-251. My. 1931. no.3.

Sherff, E. E.
New or otherwise noteworthy Compositae. VI. Bot. Gaz. 91: 308-319. My. 1931. no.3.

Bot. Közlem. (Budapest)

Degen, A., Ballenegger, R. & Paál, Á.
Az V. nemzetközi botanikai kongresszus. Cambridge, 1930. aug. hó 16-23. Bot. Közlem. (Budapest) 28: 59-75. 1931. no.1/4.

Miltényi, L.
Szövetfejlódéstani vizsgálatok gabonaféléken. (Histologisch-entwickelungsgeschichtliche untersuchungen an getreidearten) Bot. Közlem. (Budapest) 28: 1-51. illus. 1931. no.1/4.
Germany summary: p.42-46.

Brooklyn Bot. Gard. Leafl.

Graves, A. H. & Svenson, H. K.
Important woody plants - trees, shrubs and woody climbers - of greater New York. Brooklyn Bot. Gard. Leafl. 19: 1-8. Ap.22, 1931. no.2/3.

Brooklyn Bot. Gard. Rec.
Free, M.
The rock garden of the Brooklyn botanic garden. Brooklyn Bot. Gard. Rec. 20: 187-241. illus. My.1931. no.3.

Brotéria Ser. Bot. (Lisboa)
Luisier, A.
Les mousses de l'Archipel de Madère et en géneral des iles atlantiques (cont.) Brotéria 25: 1-20. 1931. no.1.

Rick, J.
Monographia das Hypoxyleas riograndenses. Brotéria Ser. Bot. 25: 21-50. 1931. no.1.

Bull. Agence Gén. Colon. France. (Paris)
Heim de Balsac, F., Dagand, G. S., Maheu, J., Heim de Balsac, H. & Parveaud, A.
Le "maripa", palmier oléifère de la Guyane francaise. Bull. Agence. Gén. Colon. France 24: 595-609. 4 pl. Ap.1931. no.266.

Bull. Dept. Agr. Straits Settlem. & Feder. Malay States.
Federated Malay States. Dept. of agriculture.
Reports of the agricultural field officers for the year 1929. In its Bull. Dept. Agr. Straits Settlem. & Feder. Malay St. Gen. Ser. no.4. 94 p. 1931.

Bull. Mens. Soc. Nat. Hort. France. (Paris)
Cayeux, H.
Vendium x fastulaceum. Bull. Mens. Soc. Nat. Hort. France V,4: 137-141. illus. Mr.1931.
V. calendulaceum x V. fastuosum.

Bull. Soc. Bot. France. (Paris)
Alleizette, C. d'
Note sur le polymorphisme de l'Anemone rubra Lamk. Bull. Soc. Bot. France 77: 624-629. illus. F.20, 1931. no.9/10.

Allorge, P.
Le jardin botanique de Leningrad. Bull. Soc. Bot. France. 77: 622-624. F.20, 1931. no.9/10.

Bull. Soc. Bot. France. (cont.)

Allorge, V. & Allorge, P.
Marcel Denis (1897-1929). Bull. Soc. Bot. France 77: 693-696. port. F.20, 1931. no.9/10.
Travaux scientifiques de Marcel Denis: p.696.

Bouly de Lesdain, M.
Notes lichénologiques. No. XXIV. Bull. Soc. Bot. France 77: 612-615. F.20, 1931. no.9/10.

Buchet, S.
Sur le prétendu "bois péripherique" des ombellifères et sur l'abus des termes impropres en anatomie végétale. Bull. Soc. Bot. France 77: 697-699. F.20, 1931. no.9/10.

Camus, A.
Anomalies florales chez le Serapias lingua L. Bull. Soc. Bot. France 77: 611-612. F.20, 1931. no.9/10.

Camus, A.
Graminées nouvelles de Madagascar. Bull. Soc. Bot. France 77: 638-641. F.20, 1931. no.9/10.

Chemin, E.
Les cellules glandulaires dans les genres Schizymenia et Turnerella. Bull. Soc. Bot. France 77: 642-653. F.20, 1931. no.9/10.

Dangeard, P.
A propos d'un travail récent de H. Kylin sur l'iodovolatilisation des laminaires. Bull. Soc. Bot. France 77: 616-621. F.20, 1931. no.9/10.

Fournier, P.
Un aspect négligé de la formation des espèces: le foisonnement générique. Bull. Soc. Bot. France 77: 633-637. F.20, 1931. no.9/10.

Frémy, P.
Cyanophycées d'Auvergne. Bull. Soc. Bot. France 77: 672-681. F.20, 1931. no.9/10.

Bull. Soc. Bot. France. (cont.)

Guffroy, C.
Notes sur la flore artésienne. Bull. Soc. Bot. France 77: 629-632. F.20, 1931. no.9/10.

Guffroy, C.
Notes sur la flore Bretonne. IV. Bull. Soc. Bot. France 77: 668-671. F.20, 1931. no.9/10.

Lemesle, R.
Des différents modes de bois périphérique. Bull. Soc. Bot. France 77: 700-701. F.20, 1931. no.9/10.

Maheu, J.
Lichens d'Aix-en-Provence (1926-1927). Bull. Soc. Bot. France 77: 597-611. F.20, 1931. no.9/10.

Mascre, M. & Thomas, R.
Le tapis staminal (assise nourricière du pollen) chez les angiospermes. Bull. Soc. Bot. France 77: 654-664. illus. F.20, 1931. no.9/10.

Lavialle, P. & Klein, G.
Pistils bi-ovulés et soudure des deux ovules chez Knautia arvensis Coult. Bull. Soc. Bot. France 77: 593-597. illus. F.20, 1931. no.9/10.

Nicolas, G.
Sur la présence d'une malvacee mexicaine dans le département du Doubs. Bull. Soc. Bot. France 77: 667-668. F.20, 1931. no.9/10.
Anoda

Pellegrin, F.
De quelques plantes d'Afrique occidentale. Bull. Soc. Bot. France 77: 664-667. F.20, 1931.

Sivadjian, J.
Capitule uniflore observé chez la pâquerette. Bull. Soc. Bot. France 77: 632-633. illus. F.20, 1931. no.9/10.

Bull. Soc. Hist. Nat. Afr. Nord. (Alger)

Braun-Blanquet, J. & Maire, J.
Contributions a l'étude de la flore Marocaine. V. Bull. Soc. Hist. Nat. Afr. Nord 22: 103-110. Mr. 1931. no.3.

Bull. Soc. Hist. Nat. Afr. Nord. (cont.)
Werner, R. G.
Contribution à la flore cryptogamique du Maroc. II. Bull. Soc. Hist. Nat. Afr. Nord. 22: 93-102. illus. Mr.1931. no.3.

[Circ.] Secc. Prop. e Inform. Min. Agr. Argentine
Marchionatto, J. B.
Dos informes sobre la roya "amarilla" del trigo. [Circ.] Secc. Prop. e Inform. Min. Agr. Argentine no.836. 20 p. illus. (map) Mr. 1931.

Citrus Leaves (Redlands, Cal.)
Fawcett, H. S.
Mal secco disease of citrus proves serious in Sicily. Citrus Leaves. 11(5): 4. illus. My. 1931.

Compt. Rend. Acad. Sci. Paris.
Bridel, M. & Lavieille, R.
Sur le principe sucré des feuilles de Kaá-he-é (Stevia rebaudiana Bartoni) Compt. Rend. Acad. Sci. Paris 192:1123-1125. My.4, 1931. no.18.

Chow, C.
Sur le développement du carpophore chez Coprinus tomentosus. Compt. Rend. Acad. Sci. Paris 192: 1121-1123. My.4, 1931. no.18.

Daniel, L.
Persistance et accentuation des variations chez les descendants du topinambour greffe sur le soleil annuel. Compt. Rend. Acad. Sci. Paris. 102: 904-906. illus. Ap.20, 1931. no.16.

Labrousse, F.
Changements de réaction observés au cours du développement de quelques champignons. Influence de la nature de l'aliment azoté. Compt. Rend. Acad. Sci. Paris 192: 980-982. Ap.20, 1931. no.16.

Compt. Rend. Soc. Biol. Paris.

Famin, A.

L'action de la température sur le chondriome de quelques cellules végétales. Compt. Rend. Soc. Biol. Paris 106: 1208-1209. My.1, 1931. no.13.

Saprolegnia, onion.

Contr. Boyce Thompson Inst. Plant Res.

Dobroscky, I. D.

Studies on cranberry false blossom disease and its insect vector. Contr. Boyce Thompson Inst. Plant Res. 3: 59-83. illus. Mr.1931. no.1.

Guthrie, J. D.

The inhibiting effect of oxidase on the reduction of sulphur by potato and gladiolus juice. Contr. Boyce Thompson Inst. Plant Res. 3: 125-130. Mr. 1931. no.1.

Kunkel, L. O.

Studies on aster yellows in some new host plants. Contr. Boyce Thompson Inst. Plant Res. 3: 85-123. illus. Mr.1931. no.1.

McCallan, S.E.A. & Wilcoxon, F.

The fungicidal action of sulphur. II. The production of hydrogen sulphide by sulphured leaves and spores and its toxicity to spores. Contr. Boyce Thompson Inst. Plant Res. 3: 13-38. illus. Mr.1931. no.1.

Vinson, C. G. & Petre, A. W.

Mosaic disease of tobacco. II. Activity of the virus precipitated by lead acetate. Contr. Boyce Thompson Inst. 3: 131-145. Mr.1931. no.1.

Coton & Cult. Coton. (Paris)

Heim de Balsac, F. & Miége, E.

Influence du nombre de valves de la capsule sur la valeur technologique de quelques cotons du Maroc. Coton & Cult. Coton. 5: 213-219. D.1930(Rec'd My. 1931) no.3.

Deut. Landw. Presse (Berlin)
Auchenbecker, L.
Kartoffel-saatgut für Brasilien. Deut. Landw. Presse 58: 239. Ap.25, 1931. no.17.

Ernähr. Pflanze (Berlin)
Kotte, W.
Untersuchungen über ernährungsphysiologische verhalten der rebe. Ernähr. Pflanze 27: 204-208. illus. My.1, 1931. no.9.

Flor. Exch. (N. Y.)
Nearing, G. G.
Another promising new rhododendron. Flor. Exch. 77(2): 23. illus. My.9,1931. no.2.
Rhododendron fargesi.

Flor. Rev.(Chicago)
Laurie, A.
Speeding plant growth. Flor. Rev. 68 31-32. My.15, 1931. no.1746.

Formosan Agr. Rev.
Hirayama, H.
On weeds in rice field and effects of weeding. Formosan Agr. Rev. 1931: 327-338. Ap.1931. no.293.
In Japanese.

Fortschr. Landw. (Vienna)
Koltermann, A.
Das auftreten des pulverschorfes der kartoffeln, Spongospora subterranea (Wallr.) Johnson, in Pommern. Fortschr. Landw. 6: 292-295. illus. My.1, 1931. no.9.

Piescu, A.
Selektionsversuche nach der saugkraft an einigen landwirtschaftlichen kulturpflanzen in Rumänien. Fortschr. Landw. 6: 299-305. illus. My.1, 1931. no.9.

Gard. Chron. (London)
Comber, H. F.
The relationships of Berberis linearifolia, B. lologensis and B. darwinii. Gard. Chron. III, 89: 334-335. illus. My.2, 1931. no.2314.

Gard.Chron. (cont.)

Crucifer chemistry. Gard. Chron. III, 89: 325. My.2, 1931. no.2314.

Grove, A.

Soil heating by electricity. Gard. Chron. III, 89: 336-337. illus. My.2, 1931. no.2314.

Ogilvie, L. & Mulligan, B. O.

White tip disease of leeks. Gard. Chron. III, 89: 360. My.9, 1931. no.2315.

Small, J.

Revelations of a pocket-lens. (cont.) Gard. Chron. III, 89: 355. illus. My.9, 1931. no. 2315.

Ward, F. K.

The Roosevelt expedition in French Indo-China. XV. On the Mekong, from Luang-Prabang to Packlay. Gard. Chron. III, 89: 356-357. illus. My.9,1931. no.2315.

Yashiroda, K.

Ilex crenata var. mariesii. Gard. Chron. III, 89: 334. My.2, 1931. no.2314.

Gartenw. (Berlin)

Alwin Berger. Gartenw. 35: 256. My.1, 1931. no. 18.

Notice of death.

Hilgardia (Berkeley, Cal.)

Haas, A.R.C. & Klotz, L. J.

Nutrition and composition of the Deglet Noor palm in relation to the decline disease. Hilgardia 5: 511-530. illus. Ap.1931. no.16.

Hoppe-Seyl.Zeitschr. Phys. Chem. (Berlin)

Zechmeister, L. & Tuzson, P.

Ueber das carotinoid des spindelbaumes (Evonymus europaeus). II. Hoppe-Seyl. Zeitschr. Phys. Chem. 196: 199-200. Ap.20,1931. no.3/4.

House & Gard. (Greenwich, Conn.)

Fox, H. M.

More gardens to see when traveling abroad. House & Gard. 59(6): 62-63. illus. Je.1931.

Ital. Agr. (Milan)

Bonvicini, M.
La stachimetria. Ital.Agr. 68: 251-257. illus. Ap.1931. no.4.
Measurement of spike in wheat.

Braschi, B.
Resistenza alla siccità di alcune varietà d'olivo coltivate in Riviera. Ital. Agr. 68: 263-266. Ap.1931. no.4.

Dalmasso, G.
Colatura, acinellatura e apirenia nelle vite. Ital. Agr. 68: 233-239. illus. Ap.1931. no.4.

Verona, O.
Attivazione fisologica od inoculazione di microrganismi attivi nel terreno coltivabile? Ital. Agr. 68: 267-269. Ap.1931. no.4.

Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) (Leningrad)

Kostycev, S., Bazyrina, K. & Cesnokov, V.
...Etudes sur la photosynthèse des plantes de la région polaire. Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) 1930: 599-610. tab. no.7.
In Russian.

Kostycev, S. & Berg, V.
... Etudes sur la photosynthèse des plantes de littoral transcaucasien. Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) 1930: 611-630. diagrs., tabl. no.7.
In Russian.

Zalesskij, M. & Cirkova, N.
...Observations sur deux végetaux nouveaux due Dévonien supérieur du bassin du donetz. Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) 1930: 1009-1017. Pl. 1. no. 10.

Zalesskij, M.
...Sur l'extension de la flore fossile parente de la flore gondwanienne dans la partie nord de l'Eurasie. Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) 1930: 913-930. illus.
In Russian.

Izv. Bulg. Bot. Druzh.(Bull. Soc. Bot. Bulgarie) (Sofia)

Atanasoff, D., Dodoff, D. & Kovachevsky, I.
... Parasitic fungi new for Bulgaria. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 36-43. 1931.
Bulgarian with English summary: p.43.

Barsakoff, B.
... Neue für Bulgarien pilzarten. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 44-47. 1931.
Bulgarian with brief German summary.

Hermann, F., Stefanoff,B. & Georgieff, T.
Neuer nachtrag zur flora Bulgariens. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 25-28. illus. 1931.

Iordanoff, D.
...Neuer beitrag zur flora Bulgariens. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 92-100. 1931.
Bulgarian with German summary: p.100.

Jwanoff, B.
... Beitrag zur pilzflora Bulgariens Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 101-102. 1931.

Kostoff, D.
... Heteroploidy in Nicotiana tabacum and Solanum melongena caused by fumigation with nicotine sulphate. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 87-92, incl. 1 pl. 1931.
Bulgarian with English summary: p.89-90.

Petkoff, S.
... Note supplémentaire à la flore algologique d'eau douce sur les côtes Bulgares de la Mer Noire. Izv.Bulg. Bot. Druzh. (Bull.Soc.Bot. Bulgarie) 4: 103-114. 1 pl. 1931.
French resume: p.111-114.

Sirjaev, G.
De plantis nonnullis bulgaricis. II. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot.Bulgarie) 4: 34-35. 1931.

Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) (cont.)

Sirjaev, G.
Supplementum ad monographiam "Onobrychis generis revision critica". Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 7-24. 1931.

Stefanoff, B. & Jordanoff, D.
Beitrag zur kenntnis der flora des Dospadgebirges (West-Rhodopen). Izv. Bulg.Bot.Bulgarie. 4: 31-33. 1931.

Stefanoff, B.
Sur un Hypericum nouveau du Kurdistan Turc. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 29-30. 1931.
Hypericum nabelekii.

Stojanoff, N.
Beitrag zur flora des Ali-Botus-gebirges. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 116-118. 1931.

Stoyanoff, N.
Notes on English beech woods. Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 57-66. 1931.

Stojanoff, N. & Stoitschkoff, J.
Die walnüsse Bulgariens. (Vorläufige mitteilung). Izv. Bulg. Bot. Druzh. (Bull Soc. Bot. Bulgarie) 4: 67-74, incl. 2 pl. 1931.

Turrill, W. B.
Rorippa pyrenaica and closely related species. Izv. Bulg.Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 48-56. 1931.

Zahn, H., Hermann, F. & Georgieff, T.
Neue und weniger bekannte hieracien (aus dem Pirin-gebirge, den Rhodopen u.a.) Izv. Bulg. Bot. Druzh. (Bull. Soc. Bot. Bulgarie) 4: 75-86. 1931.

Japan. Journ. Bot. (Tokyo)

Fukushima, E.
Formation of diploid and tetraploid gametes in Brassica. Japan. Journ.Bot. 5: 273-283. illus., pl.v. 1931. no.3.

Japan. Journ. Bot. (cont.)

Hiura, M.
Observations and experiments on the mulberry rust caused by Aecidium mori Barclay. Japan. Journ. Bot. 5: 253-272. illus., pl.ii-iv. 1931. no.3.

Noguchi, Y.
Studien über den einfluss der aussenbedingungen auf das aufblühen der reispflanzen. II. Pollenkeimung und pollenschlauchwachstum. Japan. Journ. Bot. 5: 351-369. 1931.

Okunuki, K.
Beiträge zur kenntnis der rosafarbigen sprosspilze. Japan. Journ. Bot. 5: 285-322. illus., pl.vi. 1931. no.3.

Tanaka, I.
Studien über die ernährung der höheren pflanzen mit den organischen verbindungen. Japan. Journ. Bot. 5:323-350. illus. 1931. no.3.

Journ. Agr. Prat. (Paris)

Rigotard, L.
L'hiver 1928-1929 sur les noyers. Journ. Agr. Prat. n.s., 55 (1): 370-372. illus. My.9,1931. no. 19.

Journ.Agr. Sci. (London)

Best, R. J.
A comparison of methods for determining the hydrogen-ion concentration of soils. Journ. Agr. Sci. 21:337-365. illus. Ap.1931. no.2.

Irwin, J.O.
On the influence of soil temperature on the germination interval of crops. Journ. Agr. Sci. 21: 241-250. Ap.1931. no.2.

Journ. Amer. Soc. Agron.(Geneva, N.Y.)

Burr, G. O.
Native vegetation in the pre-historic Lake Bonneville basin. Journ. Amer. Soc. Agron. 23: 407-413. My.1931. no.5.

Journ. Amer. Soc.Agron. (cont.)

Fraps, G.W.
How reliable are existing chemical methods for determining soil deficiencies in ash constituents of plants. Journ. Amer. Soc.Agron. 23: 337-351. My.1931. no.5.

Jones, J.P.
The diagnostic value of plant symptoms in determining nutrient deficiencies of soils. Journ. Amer. Soc. Agron. 23: 352-356. My.1931. no.5.

Robertson, D.W. & Deming, G. W.
Natural crossing in barley at Fort Collins, Colorado. Journ. Amer. Soc. Agron. 23: 402-403. My.1931. no.5.

Journ. Bacteriol. (Baltimore)

Maneval, W. E.
The staining of flagella of bacteria, with special reference to mordants. Journ. Bacteriol. 21: 313-321. My.1931. no.5.

Merrill, M.H.
Studies on carbon metabolism of organisms of the genus Mycobacterium. II. Utilization of organic compounds in a synthetic medium. III. End products of carbohydrate utilization as determined in synthetic media cultures. Journ. Bacteriol. 21: 361-374, 375-381. My.1931. no.5.

Journ. Bath & West & South Co. Soc. Agr.

Marsh, R. W.
Spraying trials against apple and pear scab at Long Ashton. III. Season 1930. Journ. Bath & West & South Co. Soc. Agr. VI, 5: 143-153. 1930/31.

Ogilvie, L. & Mulligan, B.O.
Progress report on vegetable diseases. Journ. Bath & West & South Co. Soc. Agr. VI,5: 154-174. 1930/31.

Wallace, T. & Ling, A.W.
Report of experiments on the eradication of bracken. Journ. Bath & West & South Co. Soc. Agr. VI, 5: 70-91. 1930/31.

Journ. Biol. Chem. (Baltimore)

Anderson, E.
Studies on the hemicelluloses. I. Journ. Biol. Chem. 91: 559-568. My.1931.no.2.
I. The evolution of carbon dioxide by plant materials and some hemicelluloses under the action of boiling twelve per cent hydrochloric acid.

Journ. Cactus & Succ. Soc. Amer.

Baxter, E. M.
A new species of Neomammillaria. Journ. Cactus & Succ.Soc. Amer. 2: 471-472. illus. My. 1931. no.11.
N. phitauiana.

Frick, G. A.
Euphorbia neriifolia. Journ. Cactus & Succ. Soc. Amer. 2: 468-469. illus. My.1931. no.11.

Johansen, D. A.
Endotrophic mycorrhiza in cacti. Journ. Cactus & Succ. Soc. Amer. 2: 478-480. illus. My. 1931. no.11.

Journ. Genetics (London)

Catcheside, D. G.
Meiosis in a triploid Oenothera. Journ. Genetics 24: 145-163. illus. Ap.1931. no.2.

Crane, M. B. & Lawrence, W.J.C.
Inheritance of sex, colour and hairiness in the raspberry, Rubus idaeus L. Journ. Genetics 24: 243-255. illus., pl.vii-viii. Ap.1931. no.2.

Demerec, M.
Behaviour of two mutable genes of Delphinium ajacis. Journ. Genetics 24: 179-193. illus., pl.iv. Ap.1931. no.2.

Imai, Y.
Analysis of flower colour in Pharnitis nil. Journ. Genetics 24: 203-224. illus., pl. v. (col.) Ap. 1931. no.2.

Kostoff, D. & Kendall, J.
Studies on certain Petunia aberrants. Journ. Genetics 24: 165-178. illus., pl. iii. Ap.1931. no.2.

ourn. Gen. Physiol. (Baltimore, Md.)

Crozier, W. J. & Navez, A. E.
Temperature characteristic for production of CO2 by Phaseolus seedlings. Journ. Gen. Physiol. 14: 617-629. diagrs. My.20, 1931. no.5.

Tang, P.
Temperature characteristics for the oxygen consumption of germinating seeds of Lupinus albus and Zea mays. Journ. Gen. Physiol. 14: 631-641. diagrs. My.20, 1931. no.5.

ourn. Min. Agr. Gt. Brit.(London)

Brown, C.A.C.
The use of electricity in horticulture. Journ. Min. Agr. Gt. Brit. 38: 132-137. My.1931. no.2.

ulk. Suomalaisen Elain- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo)

Kotilainen, M. J.
Ueber das boreale laubmooselement in Ladoga-Karelien. Eine kausal-ökologische und floristische studie. Julk. Suomalaisen Eläin- Kasvit. Seuran Vanamon (Ann.Soc. Zool.-Bot. Fenn. Vanamo) 2: 1-142. illus.,4 pl. on 2 (maps) no.1.

Liro, J. I.
Ueber die mosaikkrankheit der Prunella vulgaris L. Julk. Suomalaisen Eläin.- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot.Fenn. Vanamo) 2: 143-149. illus. 1930. no.2.

Lonkola, K.
Ueber das vorkommen von samenkeimlingen bei polyakanthen in den naturlichen pflanzengesellschaften. Julk. Suomalaisen Elain-& Kasvit.Seuran Vanamon(Ann. Soc. Zool.-Bot. Fenn. Vanamo) 2: 150-172. 1930. no.3.

Suomalainen, P.
Ueber die samenkeimlinge auf einer meeresstrandwiese in südfinnland. Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 2: 173-187. 1930. no.4.

Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon(Ann. Soc. Zool.-Bot. Fenn. Vanamo) (cont.)

Wein, K.
Elias Tillandz's "Catalogus plantarum" (1683) im lichte seiner zeit erklärt und gewürdigt. Ein beitrag zur geschichte der floristik und zur geschichte der botanik in Finnland. Julk. Suomalaisen Eläin- & Kasvit Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 2: 190-411. 1930. no.5.

Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwwetensch. (Amsterdam)

Botjes, J.O.
De invloed van abnormaal groote minerale bemestingen op het soortelijk gewicht der aardappelknollen. Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwwetensch. 43: 193-199. Ap.1931. no.517.

Lingnan Sci. Journ.(Lingnaam Agr.Rev.) (Canton,China)

Chung, H.H.
The study of botany in Fukien. Lingnan Sci. Journ. (Lingnaam Agr.Rev.) 7: 121-130. Je.1929 (Rec'd My.1931)

Crook, A.H.
A note on Gnetum scandens. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 131-135. Je.1929(Rec'd My. 1931)

Dandy, J.E.
The Magnoliaceae of Kwangtung, Macao, and Hong Kong. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 137-145. Je.1929(Rec'd My.1931)

Groff, G.W.
The botany of Kwangtung and its relation to agriculture. Lingnan Sci. Journ. (Lingnaam Agr.Rev.) 7: 147-162. Je.1929(Rec'd My.1931)

Hitchcock, A.S.
Grasses of Canton and vicinity. Lingnan Sci. Journ. (Lingnan Agr.Rev.) 7: 177-265. pl.9-11. Je.1929(Rec'd My.1931)

Liu, J.C.
The number of vascular bundles in Ephedra sinica, and E. equisetina. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 167-172. pl.7-8. 2 tabl. Je.1929(Rec'd My.1931)

Lingnan Sci. Journ. (Lingnaam Agr.Rev.) (cont.)

McClure, F. A.
A brief historical survey of the Lingnan University herbarium. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 267-289. pl.12(map) Je.1929(Rec'd My.1931)

Merrill, E. D.
Unrecorded plants from Kwangtung Province, II. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 297-326. Je.1929(Rec'd My.1931)

Porterfield, W.M. jr.
A review of the literature on the growth of bamboo. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 327-336. Je.1929(Rec'd My.1931)

Tanaka, T.
Remarks on citrus and citrus relatives in China. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 337-348. Je.1929(Rec'd My.1931)

Tilden, J. E.
The marine and freshwater algae of China. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 7: 349-397. pl.13(map) Je.1929(Rec'd My.1931)

Listy Cukrovarnické

Neuwirth, F.
Poškození řep tepelnymi paprsky slunečními za vegetace. Listy Cukrovarnické 49: 418-422. illus. Ap.10,1931. no.32.

Rambousek, F.
Skudcové a choroby řepníroku 1930. Listy Cukrovarnické 49: 387-397. illus. Ap.3, 1931. no.31.

Medd. Stat. Forsøgsv. Plantekultur. Denmark.

Aebleskurv og paereskurv. Medd. Stat. Forsøgsv. Plantekultur. Denmark no.189. 4 p. illus. Mr.1931.

Afsvampning af roefrø. Medd. Stat. Forsøgsv. Plantekultur. Denmark no.188. 4 p. illus. Mr.1931.

Udbytteforsøg med afsvampning af kornarterne. Medd. Stat. Forsøgsv. Plantekultur. Denmark no.184. 3 p. F.1931.

Mem. Coll. Agr. Kyoto Imp. Univ.

Hemmi, T. & Kurata, S.
Studies on septiorioses of plants. II. Septoria azaleae Vogling causing the brown-spot disease of the cultivated azaleas in Japan. Mem. Coll. Agr. Kyoto Imp. Univ. 13: 1-22. pl.i-ii. F.1931.

Hirayama, S.
Studies on septorioses of plants. IV. Mem. Coll. Agr. Kyoto Imp. Univ. 13: 33-40. F.1931.
IV. New or noteworthy species of Septoria found in Japan.

Nakamura, H.
Studies on septiorioses of plants III. On Septoria callistephi Gloyer pathogenic on the China aster. Mem.Coll.Agr. Kyoto Imp. Univ. 13:23-32. pl. iii. F.1931.

Ohara, K.
Aschenbilder wichtiger koniferenrinden Japans mit ruecksicht auf systematik. Mem.Coll. Agr. Kyoto Imp. Univ. no.14. 70 p. viii pl. F.1931.

Satoh, S.
Studien über die wirkungen der durch Ophiobolus miyabeanus gebrauchten nährlösungen auf die keimung und entwicklung eines anderen pilzes. Mem.Coll. Agr. Kyoto Imp. Univ. 13: 41-54. F.1931.

Mem. Dept. Agr. India Bot.Ser.

Ramakrishnan, T. S.
A leafspot disease of Andropogon sorghum caused by Cercospora sorghi E. & E. Mem. Dept. Agr. India Bot. Ser. 18: 259-277. illus., pl. i-iii. Mr. 1931. no. 9.

Trought, T.
The effect of some meteorological conditions on the growth of Punjab-American cotton. Mem. Dept. Agr. India Bot.Ser. 17: 137-154. diagrs. Mr.1931. no.6.

Mem. Estac. Exp. Agr. Soc. Nac. Agraria Lima.

Abbott, E. V.
Informe der jefe de la seccion de fitopatologia, 1929. Mem. Estac. Exp. Agr. Soc. Nac. Agraria, Lima 2: 85-101. illus. Ja.1930(Rec'd My.1931)

Mitt. Forstwirtsch. u. Forstwiss. (Hannover)

Falck, R.
Ueber den einfluss des flössens auf die widerstandsfähigkeit des bauholzes gegen trockenfäule und über den holzschutz durch schimmelbefall und diffusionstränkung. Mitt. Forstwirtsch. u. Forstwiss. 11: 480-485. illus. 1931. no.2.

Johann, F. F.
Untersuchungen über die dauerhaftigkeit blauen kiefernholzes. Mitt. Forstwirtsch. u. Forstwiss. 11: 209-221. illus. 1931. no.1.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Lange, W.
Betrachtungen über physiognomie und charakter der pflanzen. II. Möller's Deut. Gärtn.-Zeit. 46: 146-147. My.1,1931. no.13.

Uphof, J. C. Th.
Japanische zierkirschen im blüte. Möller's Deut. Gärtn.-Zeit. 46: 145-146. illus. My.1, 1931. no.13.

Nature Mag. (Washington, D. C.)

Morse, E. E.
The spined puffball. Nature Mag. 17: 382-383. illus. Je.1931. no.6.

Southcott, M.
Blooms of Newfoundland. Nature Mag. 17: 384-386. illus. Je.1931. no.6.

Nuovo Giorn. Bot. Ital. (Firenze)

Cengia-Sambo, Maria.
Fragmenta lichenologica. Nuovo Giorn. Bot. Ital. n.s., 38: 65-77. 1931. no.1.

Colla, S.
Ricerche sul movimento degli stami in alcune berberidacee. Nuovo Giorn. Bot. Ital. n.s., 38: 1-46. illus. 1931. no.1.
English summary: p.45.

Francini, E.
Ricerche embriologiche e cariologiche sul genere Cypripedium s.l. Nuovo Giorn. Bot. Ital. n.s., 38: 155-212. illus. 1931. no.1.

Nuovo Giorn. Bot. Ital. (cont.)

Marcello, A.
Sulla interpretazione di alcuni casi teratologici nelle infiorescenze di "Zea mais" L. III. Nuovo Giorn. Bot. Ital. n.s., 38: 213-215. illus. pl.iii. 1931. no.1.

Messeri, A.
Lo sviluppo del sistema conduttore di Ginkgo biloba L. Nuovo Giorn. Bot. Ital. n.s., 38: 78-127. illus. 1931. no.1.

Milan, A.
Il grado di recettività per la carie delle varietà di frumento III. Nuovo Giorn. Bot. Ital. n.s., 38: 142-154. 1931. no.1.

Pigorini, L.
Osservazioni di biologia del gelso. Nuovo Giorn. Bot. Ital. n.s., 38: 137-141. 1931. no. 1.

Ponzo, A.
Sul concetto di fillodio. Nuovo Giorn. Bot. Ital. n.s., 38: 47-64. 1931. no.1.

Vignolo-Lutati, F.
L' Adenocalyx racemosus Bertero (1821) (- Coulteria mollis H.B. & K. 1823). Nuovo Giorn. Bot. Ital. n.s., 38: 128-136. pl. i-ii. 1931. no.1.

Orchid Rev. (Richmond, England)

Arnold, R.E.
Phaius species and hybrids. Orchid Rev. 39: 45-49. F.1931. no.452.

Cooper, E. W.
Houlletia odoratissima var. Orchid Rev. 39: 14-16. illus. Ja. 1931. no.451.

Quisumbing, E.
A teratological case in Aërides quinquevulnerum. Orchid Rev. 39: 131. illus. My.1931. no.455.

Peanut World. (Suffolk, Va.)

Peanut diseases and their control. Peanut World. n.s., 1(2): 15-17. My.1931.

Bibliography of peanut diseases. List was taken from the files of Dr. George W. Carver, Tuskegee Inst., Tuskegee, Ala., and from the files of the Tom Huston Peanut Co., Columbus, Georgia.

Pflanzenbau (Berlin)

Bär, K.

Korrelationen bei wiesenrispengras. Pflanzenbau 7: 312-314. Ap.1931. no.10.

Remy, Th.

Transpiration and dürreverträglichkeit der pflanzen. Pflanzenbau 7: 307. Ap. 1931. no.10.

Philipp. Journ. Sci. (Manilla)

Reinking, O.A. & Humphrey, C.J.

Laboratory tests on the durability of Philippine woods against fungi. Philipp. Journ. Sci. 45: 77-89. pl.1-2. My. 1931. no.1.

Phytopath. Zeitschr. (Berlin)

Jancke, O.

Zur rechnerischen auswertung von pH-untersuchungen. Phytopath. Zeitschr. 3: 335-339. 1931. no.3.

Sideris, C. P.

Pathological and histological studies on pythiaceous root rots of various agricultural plants. Phytopath. Zeitschr. 3: 137-161. incl. 11 pl. on 6. 1931. no.2.

Stock, F.

Untersuchungen über keimung und keimschlauch-der uredosporen einiger getreideroste. Phytopath. Zeitschr. 3: 231-279. illus. 1931. no.3.

Tumanow, I. I.

Das abhärten winterannueller pflanzen gegen niedrige temperaturen. Phytopath. Zeitschr. 3: 303-334. illus. 1931. no.3.

Zattler, F.

Ueber die einflüsse von temperatur und luftfeuchtigkeit auf keimung und fruktifikation von Pseudoperonospora humuli und auf das zustandekommen der infektion des hopfens. Phytopath. Zeitschr. 3: 281-302. illus. 1931. no.3.

V.13, no.10, p.25.

Planta, Arch. Wiss. Bot. (Berlin)

Arnold, A.

Der verlauf der assimilation von Helodea canadensis unter konstanten aussenbedingungen. Zugleich ein beitrag zur kritik der blasenzählmethode. Planta Arch. Wiss. Bot. 13: 529-574. illus. Ap. 14, 1931. no.2/3.

Ehrke, G.

Ueber die wirkung der temperatur und des lichtes auf die atmung und assimilation einiger meeres- und süsswasseralgen. Planta Arch. Wiss. Bot. 13: 221-310. illus. Ap.14, 1931. no.2/3.

Schussnig, B.

Die somatische und heterotype kernteilung bei Cladophora suhriana Kützing. Planta Arch. Wiss. Bot. 13: 474-528. illus. Ap.14, 1931. no.2/3.

Troll, W. & Dragendorff, O.

Ueber die luftwurzeln von Sonneratia Linn. f. und ihre biologische bedeutung. Planta Arch. Wiss. Bot. 13: 311-473. illus., 1 pl., map. Ap.14, 1931. no.2/3.

Mit einem rechnerischen anhang von Hans Fromherz; p. 463-473.

Proc. 1st. Imp. Hort. Conf. London.

Archbold, H. K.

Chemical change in stored apples. The relation of the time of picking to the chemical composition and storage life of the apple. Proc. 1st Imp. Hort. Conf. London 3: 91-97. diagrs. Mr. 1931.

Blackman, V. H.

Some physiological considerations in horticulture. Proc. 1st Imp. Hort. Conf. London 2: 37-41. F.1931. no.2.

Carne, W. M., Pittman, H. A. & Elliott, H. G.

The present position of the bitter pit problem in Australia. Proc. 1st Imp. Hort. Conf. London 3: 37-49. Mr.1931.

Proc. 1st Imp. Hort. Conf. London (cont.)

Horne, A. S.
The infection and invasion of the apple fruit by fungi in relation to the problem of storage. Proc. 1st Imp. Hort. Conf. London 3: 83-87, 1 pl. Mr. 1931.

Mason, T. G. & Maskell, E. J.
Plant physiological work in the tropics. Some of the problems with special reference to cocoa, and some lines of attack. Proc. 1st Imp. Hort. Conf. London 2: 41-45. F.1931. no.2.

Palmer, R. C.
Recent progress in the study of Jonathan breakdown in Canada. Proc. 1st Imp. Hort. Conf. London 3: 25-37. 4 pl. on 2. Mr.1931.

Taylor, H. V.
Meteorology and fruit growing. A British scheme of research. Proc. 1st Imp. Hort. Conf. London 2: 53-58. F.1931. no.2.

Thomas, M.
Bio-chemical investigations on the storage diseases of apples, with special reference to aldehyde poisoning. Proc. 1st Imp. Hort. Conf. London 3: 98-101. 2 pl. on 1. Mr.1931.

Tomkins, R. G.
The biological effects of humidity in the storage of fruit. Proc. 1st Imp. Hort. Conf. London 3: 78-82. Mr.1931.

Wallace, T.
Factors influencing the storage qualities of fruits. Proc. 1st Imp. Hort. Conf. London 3: 9-25. Mr.1931.

Wallace, T.
Soil and climate surveys as a basis of fruit research. Proc. 1st Imp. Hort. Conf. London 2: 45-49. F.1931.

Wardlaw, C. W. & McGuire, L. P.
Bananas. The behaviour and diseases of the banana in storage and transport. Proc. 1st Imp. Hort. Conf. London 3: 52-60. Mr.1931.

Proc. 1st Imp. Hott. Conf.London (cont.)
Young, W.J. & Read, F.M.
Experiments on the preservation of citrus fruits. Proc. 1st Imp. Hort. Conf. London 3: 50-51. Mr.1931.

Proc. Imp. Acad.Tokyo.
Komuro, H.
Betrachtungen über die zytologischen veränderungen in den in kohlenteerlösung getauchten wurzelspitzen junger pflanzen. Proc. Imp. Acad. Tokyo. 7: 110-112, 114-115. 2 pl. Mr.1931. no.3.

Komuro, H.
Ueber die entstehung der gewebeabnormität und des knotenanfangs infolge von infiltration spezieller zellgruppen in röntgenbestrahltem pflanzengewebe. Proc. Imp. Acad. Tokyo 7: 117-120, incl. 1 pl. Mr. 1931. no.3.

Proc. Ohio Veg. Grow. Assoc.
Alexander, L.J.
Tomato leaf mold and greenhouse ventilation. Proc. Ohio Veg. Grow. Assoc. 16: 87-91. 1931.

Proc. Potato Assoc. Amer.
Clark, C.F.
The origin by mutation of some American potato varieties. Proc. Potato Assoc. Amer. 17(1930): 117-124. 1931.

Folsom, D.
Comparison of "healthy" Green Mountain strains and tuber lines in Maine. Proc. Potato Assoc. Amer. 17(1930): 134-140. 1931.

Folsom, D.
Virus diseases of the potato. Proc. Potato Assoc. Amer. 17(1930): 83-102. 1931.

Gratz, L.O.
Transmisssion of spindle tuber of potatoes through the usual commercial practices. Proc. Potato Assoc. Amer. 17(1930): 73-82. 1931.

roc. Potato Assoc. Amer. (cont.)

Krantz, F.A . & Bailey, R.M.
Recent contributions to potato breeding and related subjects. Proc. Potato Assoc. Amer. 17(1930): 124-128. 1931.

Martin, W.H.
The relation of soil conditions to the development of potato scab. Proc. Potato Assoc. Amer. 17(1930): 62-73. 1931.

Peacock, W.M., Wright, R.C., and Whiteman, T.M.
Sun-scald injury of potatoes as influenced by solar and sky radiation and storage temperatures. Proc. Potato Assoc. Amer. 17(1930): 102-108. fold.tab. 1931.

rogr. Agr. & Vitic. (Montpellier)

Bènes, G.
Contribution a l'étude sur le court-noué. Quelques conditions qui paraissent rendre le sol apte a engendrer du court-noué. Progr. Agr. & Vitic. 95: 444-446. My.10, 1931. no.19.

rotoplasma (Leipzig)

Albach, W.
Ueber die schädigende wirkung der plasmolyse und der deplasmolyse. Protoplasma 12: 255-267. F. 1931. no.2.

Hammett, F.S., Anderson, J. & Justice, E.
The relation between initial root length and subsequent growth in Zea mays seedlings. Protoplasma 12: 190-195. F.1931. no.2.

Kunze, R.
Der einfluss der wasserstoffionen-konzentration auf die vakuolenkontraktion vital-gefärbter Elodea canadensis. Protoplasma 12: 161-166. F.1931. no.2.

Malhotra, R. C.
A physio-chemical study of some economic seeds during germination with particular reference to weight and energy loss. Protoplasma 12: 166-189. illus. F.1931. no.2.

Protoplasma (cont.)

Pfeiffer, H.
Kleine beiträge zur bestimmung des IEP von protoplasten. II. Keimungsversuche mit pollen im vergleich mit refraktometrischen messungen. Protoplasma 12: 268-278. F.1931. no.2.

Péterfi, T. & Yamaha, G.
Die wirkung des mechanischen drucks auf das protoplasma der Nitella-zelle. Protoplasma 12: 279-286. illus. F.1931. no.2.

Plowe, J. Q.
Membranes in the plant cell. I-II. Protoplasma 12: 196-220, 221-240. illus. F.1931. no.2.

Sponsler, O. L.
Orientation of cellulose space lattice in the cell wall. Additional x-ray data from Valonia cell-wall. Protoplasma 12: 241-254. illus., pl.2. F.1931. no.2.

Rep. Oper. Dept. Agr. Burma.

India - Burma. Dept. of Agriculture - Mycologist.
[Report] Rep. Oper. Dept. Agr. Burma. 1929/30: 11-12. 1931.

Rev. Agr. Puerto Rico. (San Juan)

Colón, E. D.
El uso de nuestro léxico fitopatológico. Rev. Agr. Puerto Rico 26: 119, 143. Ap. 1931. no.10.

Ramírez, C.
La clorosis de la piña cabezone de Lajas. Rev. Agr. Puerto Rico 26: 124-126. illus. Ap. 1931. no.10.

Rev. Agriculteurs France

Cadoret, A.
Les leçons du mildiou en 1930. Rev. Agriculteurs France 1931: 127-192. Ap.1931. no.4.

Moreau, L. & Vinet, E.
De la valeur des "traitements d'assurance" dans la lutte contre les ennemis de la grappe. Rev. Agriculteurs France 1931: 125-126. Ap.1931. no.4.

Rev. Agriculteurs France (cont.)

Moreau, L. & Vinet, E.
Les traitements curatifs du mildiou. (Action comparée des héliones et des bouillies cupriques). Rev. Agricultuers France 1931: 126-127. Ap.1931. no.4.

Rouart,
Les hybrides producteurs et leur résistance au mildiou. Rev. Agriculteurs France 1931: 128-129. Ap. 1931. no.4.

Rev. Bot. Appl. (Paris)

Chevalier, A.
Le palmier à huile à la Côte d'Ivoire. Rev. Bot. Appl. 11: 213-229. illus. Ap.1931. no.116.

Chevalier, A.
Sur un nouveau Sclerosperma du Gabon. Rev. Bot. Appl. 11: 236-239. illus. Ap. 1931. no.116.
Sclerosperma walkeri.

Walker, A.
Champignon comestibles de la Basse-Ngounié (Gabon) Rev. Bot. Appl. 11:240-247. Ap.1931. no.116.

Rev. Eaux et For. (Paris)

Guinier, P.
Deux maladies cryptogamiques nouvelles des arbres forestiers. (La maladie des ormes, le rouge des aiguilles du Douglas). Rev. Eaux et For. VII, 69: 292-299. Ap.1931. no.4.

Rev. Industr. y Agr. Tucumán. (Buenos Aires)

Cross, W. E.
Ensayos con la variedad de caña P.O.J. 2878. Rev. Industr. y Agr. Tucumán 20: 169-172. Ap./D. 1930 (Rec'd My.1931) no.11/12.

Rhodesia Agr. Journ. (Salisbury)

Hopkins, J.C.F.
Plant pathology in southern Rhodesia during the year 1930. Rhodesia Agr. Journ. 28: 384-389. Ap.1931. no.4.

Stent, S. M.
Preliminary list of the more common grasses of southern Rhodesia. Rhodesia Agr. Journ. 28: 342-359. 2 pl. on 1. Ap.1931. no.4.

Rhodora (Boston)

Griscom, L.
Another station for Panicum calliphyllum Ashe. Rhodora 33: 131-132. My.1931. no.389.
East Weymouth, Mass.

Perry, L. M.
The vascular flora of St. Paul Island, Nova Scotia. Rhodora 33: 105-126. pl.208, map. May.1931. no.389.

Riv. Patol. Veg. (Pavia)

Rivera, V. & Corneli, E.
Rassegna dei casi fitopatologici osservati nel 1929 (danni da freddo e da crittogame). Riv. Patol. Veg. 21: 65-83. pl. i-ii. Mr./Ap.1931. no.3/4.

Schweiz. Zeitschr. Obst- u. Weinb. (Wädenswil)

Schellenberg, H.
Neuzeitliche technik in der bekämpfung des falschen meltaues. Schweiz. Zeitschr. Obst.- u. Weinb. 40: 209-217. My.9,1931. no.10.

Science (Lancaster, Pa.)

Cattell, W.
The effects of x-rays on the growth of wheat seedlings. Science 73: 531-533. diagr. My.15,1931. no.1898.

Glodblatt, H.
Vitamin D in whole corn. Science 73: 494-495. My.8,1931. no.1897.

Hoar, C. S.
Meiosis in Hypericum punctatum Lam. Science 73: 528-529. My.15, 1931. no.1898.

Petersen, N. F.
Vegetative propagation in the Missouri gourd. Science 73: 528. My.15,1931. no.1898.

Wolcott, G. N.
Erik Ekman - an appreciation. Science 73: 487-488. My.8, 1931. no.1897.

Scient. Agr. (Ottawa)

Kirk, L. E. & Stevenson, T.
Seed colour markings in white flowered sweet clover Melilotus alba Desr. Scient. Agr. 11: 607. illus. My.1931. no.9.

Newton, J. D.
Sulphur oxidation in Alberta soils and related experiments. Scient. Agr. 11: 612-620. illus. My.1931. no.9.

Stadler, L. J.
The experimental modification of heredity in crop plants I. Scient. Agr. 11:557-572. illus., My. 1931. no.9.
I. Induced chromosomal irregularities.

Sinensia Contr. Metrop. Mus. Nat. Hist. Nanking.

Merrill, E. D.
On the desirability of an actual examination of extant types of Chinese species. Sinensia Contr. Metrop. Mus. Nat. Hist. Nanking Special Bull. no.1. 10 p. D.1930 (Rec'd My. 1931.)

Svenska Skogsvårdsfören. Tidskr. (Journ. Swedish For. Soc.)

Stålfelt, M. G.
Die physiologisch-ökologischen bedingungen der kronenreinigung, schaftreinigung und der natürlichen bestandesreinigung der fichte. Svenska Skogsvårdsfören Tidskr. (Journ. Swedish For. Soc.) 29: 1-44. illus. Ap.1931. no.1.

Tidschr. Plantenz. (Amsterdam)

Meer, J. H. H. van der
Maatregelen ter voorkoming eener ernstige aantasting der tomaten door de schimmel Cladosporium fulvum Cke (Meeldauw). (Measures which may prevent a severe attack of tomato leaf-mould caused by the fungus Cladosporium fulvum Cke). Tijdschr. Plantenz. 37: 69-90. illus. Ap.1931. no.4.
English summary: p.87-89.

Univ. Iowa Studies Nat. Hist. (Iowa City)

Cejp, K.
Contribution to the knowledge of the Hydnaceae and Phylacteriaceae. Univ. Iowa Studies Nat. Hist. 13(3): 3-5. 2 pl. Mr.15,1931.

Jones, E. N.
The morphology and biology of Ceratophyllum demersum. Univ. Iowa Studies Nat. His. 13(3): 11-46. illus., iv pl. Mr.15,1931.

Veröffentl. Staatl. Stelle Natursch. Württ. Landes. Denkmalpfl.
Braun-Blanquet, J.
Die trockenrasengesellschaften des Hegaus und ihre genese. In Der Hohentwiel. Veröffentl. Staatl. Stelle Natursch. Württ. Landes. Denkmalpfl. 7: 59-65. 1931.

Schwenkel, H. & Faber, A.
Pflanzensoziologische aufnahmen von Sept. 1930. In Der Hohentwiel... Veröffentl. Staatl. Stelle Natursch. Württ. Landes. Denkmalpfl. 7: 65-85. illus. 1931.

Tüxen, R.
Die pflanzensoziologische arbeitsmethode von Dr. Braum-Blanquet. In Der Hohentwiel... Veröffentl. Staatl. Stelle Natursch. Württ. Landes. Denkmalpfl. 7: 49-58. 1931.

Vict. Nat. (Melbourne)
Coleman, E.
Pollination of Spiranthes australis Lindl. Vict. Nat. 47: 204-209. illus. Ap.1931. no.12.

West Homes & Gard.
Rowntree, L.
Ten native California bulbs for the rock garden. II. West. Homes & Gard. 15(5): 6. My.1931. Calochortus, Fritillaria.

Wiss. Arch. Landw. Abt. A. Pflanzenbau. (Berlin)
Fürst, F.
Der klappertopf (Alectorolophus) als acker- und wiesenunkraut. Untersuchungen über bau, verbreitung, lebensverhältnisse, schaden und bekämpfungsmöglichkeiten Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 30-141. illus. Ap.15, 1931. no.1.

Klinkowski, M.
Beiträge zur biologie der luzerne. Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 142-164. illus.(maps) Ap.15, 1931. no.1.

Zeitschr. Parasitenk.
Böning, K.
Zur ätiologie der streifen- und kräuselkrankheit des tabaks. Zeitschr. Parasitenk. 3: 103-141. illus. Ap.20, 1931. no.2.

Zeitschr. Pflanzenkr. (Stuttgart)

Klebahn, H.
Kulturversuche und bemerkungen über rostpilze. XVIII. Bericht (1925-1930), Mit einem anhang über Ustilago longissima. Zeitschr. Pflanzenkr. 41: 209-223. illus. My.1931. no.5.

Lepik, E.
Anatomische untersuchungen über die durch Plasmopara viticola erzeugten subinfektionen. Zeitschr. Pflanzenkr. 41: 228-240. illus. My.1391. no.5.

Schwarz, H.
Beobachtungen und bemerkungen über die seit dem strengen winter 1928/29 auftretended buchemerkrankungen. Zeitschr. Pflanzenkr. 41:251-252. My.1931. no.5.

Zschokke, A.
Beschädigung von weinreben durch sonnenbrand und austrocknen. Zeitschr. Pflanzenkr. 41: 240-251. illus. My.1931. no.5.

Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R. (Saratov)

Khlebnikova, N. A.
... Comparingly-anatomical study of vegetative organs and kernel of rye-wheat polyploids. Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8:305-321. illus. 1930(Rec'd My. 1931) no.2.
Russian with English summary.

Novikov. V. A.
....To the physiology of the cotton plant I- Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8:267-304. 1930 (Rec'd My.1931) no.2.
Russian with English summary.
I. Investigation of the processes of assimilation, the dynamics of the stomatar apparatus and the transpiration of the cotton plant.

Prisiajnuk, A. A.
... Revue of the diseases of cultivated plants in the environs of Saratov in 1929. Zhurn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 337-353. 1930(Rec'd My.1931) no.2.
Russian with English summary.

Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E.U.S.S.R. (cont.)

Sukhorukov, K. T.
... Enzymatic activity of vegetative organism and some phenomena of physiological immunity Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 8: 237-266. 1930(Rec'd My.1931) no.2.
Russian with English summary.

Exper. Stat. Publ.

Mackie, W. W.
Diseases of grain and their control. California Agr. Exp. Stat. Bull. no.511. 87 p. illus. Ap. 1931.

Beadle, G. W.
A gene in maize for supernumerary cell divisions following meiosis. Cornell Agr. Exp. Stat. Mem. 135. 12 p. illus., 3 pl. on 2. Mr.1931.

Vincent, C. C. & Longley, L. E.
Apple breeding in Idaho. Idaho Agr. Exp. Stat. Res. Bull. no. 8. 58 p. illus. N.1930 (Rec'd My.1931)

Beckwith, C. S.
Cranberry growing in New Jersey. New Jersey Agr. Exp. Stat. Circ. 246. 40 p. illus. Mr. 1931.
Diseases: p.27.

New Jersey agricultural experiment station, Dept. plant pathology.
Soil treatments for rhododendron wilt. Its Nursery Dis. Notes v.3, no.11. 4 p. My.1931.
Mimeographed.

White, R. P.
Diseases of ornamental plants. New Jersey Agr. Exp. Stat. Circ. 226. 98 p. illus. F.1931.
Some of the material reprinted as circulars 230-244, each describing diseases occurring on separate host plants.

White, R. P.
Winter injury of evergreens. New Jersey Agr. Exp. Stat. Circ. 245. 2 p. illus. Ap.1931.

Exper. Stat. Publ. (cont.)

Thomas, R. P.
The relation of nitrate nitrogen and nitrification to the growth of tobacco following timothy. Wisconsin Agr. Exp. Stat. Res. Bull. 105. 28 p. illus. D.1930(Rec'd My.1931)

Walker, J. C.
Resistance to Fusarium wilt in garden, canning, and field peas. Wisconsin Agr. Exp. Stat. Res. Bull. 107. 15 p. 4 pl. on 2. F.1931.

New Books.

American gladiolus society
Descriptive gladiolus nomenclature. Comp. by A.M.S. Pridham. Nappanee, Ind., E.V. Publishing house, 1931.

Coventry, B. O.
Wild flowers of Kashmir, (ser.3)... London, Raithby, Lawrence & Co., 1930.

Garden club of Virginia
Homes and gardens in Old Virginia. Ed. by S. W. Massie and F. A. Christian... Richmond, Garrett & Massie, 1931.

Harvey, R. B.
An annotated bibliography of the low temperature relations of plants. 2 v. University of Minnesota, 1931. [Typewritten]

Kyoto Imperial University
Anniversary volume dedicated to Masumi Chikashige by his pupils in celebration of his sixtieth birthday. Kyoto, Kyoto Kagaku Gakushi Kwai, 1930.
Biochemical studies on the bamboo. I-VII, by various authors.

Pampanimi, R.
Prodromo della flora Cirenaica. Forli, Valbonesi, 1930.

Pareys Blumengärtnerei. Beschreibung, kultur & verwendung der gesamten gärtnerischen schmuckpflanzen. lfg. 9. Berlin, P. Parey, [1931]

New Books (cont.)

Robyns, W.
Flore agrostologique du Congo Belge et du Ruanda-Urundi. v.i. Maydées et andropogonées. Bruxelles, Goemaere, 1929.

Royal horticultural society.
Classified list of daffodil names... London, F.1931.

Schaal, G.
Die wertvollsten apfel u. birnsorten. Stuttgart, Eckstein & Stähle, Hofkunstanstalt, [1931]

Schwarz, H.
Die areale von 70 klimatypischen und wirtschaftlich bedeutungsvollen holzarten im gemässigten östlichen Nordamerika, nebst einführing erläuterung und systematischer gleiderung derselben. Wien, 1930.
[Mimeographed]

Vsesoiuznyi s'ezd po genetike, selektsil, semenovodstvu i plenemennomu zhivotnovodstu, Leningrad, 1929.
Proceedings of the U.S.S.R. Congress of genetics, plant and animal breeding held in Leningrad, January 10-16, 1929. 6 v. Leningrad, 1929-1930.
v.2 Genetics, v.3, Investigation in cultivated plants, v.4. Plant breeding, v.5. Seed growing and study of varieties.

Weston, T. A.
Practical carnation culture. New York, A. T. De la Mare Co., 1931.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

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U. S. Department of Agriculture

Vol. 13, no.11. May 25-June 6, 1931.

Agr. & Live-stock, India (Calcutta)

Dastur, J. F.
Control of the foot-rot disease of pan (Piper betel) in the Central Provinces. Agr. & Live-stock, India 1: 26-31. pl. iii-iv. Ja.1931. no.1.

Dastur, J. F.
A short note on the diseases of cotton seedlings in the Central Provinces. Agr. & Live-stock, India 1: 44-48. Ja.1931. no.1.

Subramaniam, L. S.
A note on the downy-mildew of sugarcane in India. Agr. & Live-stock, India 1: 32-33. pl.v-vi, (1 col.) Ja. 1931. no.1.

Venkatraman, T. S. & Thomas, R.
Coimbatore seedling canes. Agr. & Live-stock India 1: 128-134. pl.vii-ix, (2 col.) Mr.1931. no,2.

Amer. Forests (Washington)

Rosen, H. R.
Underworld characters of tree land. Amer. For. 37: 335-338. illus. Je. 1931. no.6.

Amer. Journ. Bot.

Cooper, D. C.
Microsporogenesis in Buginvillaea glabra. Amer. Journ. Bot. 18: 337-358. pl. xxii-xxvi. My. 1931. no.5.

Dunlap, A. A.
Carbohydrate variations accompanying the mosaic disease of tobacco. Amer. Jour. Bot. 18: 328-336. My.1931. no.5.

Howe, M. D.
A morphological study of the leaf notches of Bryophyllum calycinum. Amer. Journ. Bot. 18: 387-390. pl. xxxi. My.1931. no.5.

Amer. Journ. Bot. (cont.)

Munz, P. A.
Studies in Onagraceae VI. The subgenus Anogra of the genus Oenothera. Amer. Journ. Bot. 18: 309-327. My.1931. no.5.

Taylor, W. R.
Chromosome studies on Gasteria. III. Chromosome structure during microsporogenesis and the post-meiotic mitosis. Amer. Journ. Bot. 18: 367-386. illus., pl. xxvii-xxx. My.1931. no.5.

Whitaker, T. W.
Sex ratio and sex expression in the cultivated cucurbits. Amer. Journ. Bot. 18: 359-366. My. 1931. no.5.

Amer. Journ. Pharm. (Philadelphia)

Couch, J. F.
New alkaloids discovered 1920-1929, inclusive. Amer. Journ. Pharm. 103: 242-251. My.1931. no.5.

Viehoever, A.
Transparent life. Amer. Journ. Pharm. 103: 252-278. illus. My.1931. no.5.
I. Transparent plant life: p.254-257.

Angew. Bot. (Berlin)

Krüger, L.
Ein beitrag zur biologie von Chenopodium album. Bedeutung und bekämpfung als landwirtschaftliches unkraut. Angew. Bot. 13: 97-121. illus. Mr./Ap.1931. no.2.

Liese, J.
Beobachtungen über die biologie holzzerstörender pilze. Angew. Bot. 13: 138-150. diagr. Mr./Ap. 1931. no.2.

Moritz, O.
Zum problem der fusskrankheit des weizens. Angew. Bot. 13: 151-161. Mr./Ap. 1931. no.2.

Roodenburg, J. W. M.
Kunstlichtkultur. Angew. Bot. 13: 162-166. Mr./Ap. 1931. no.2.

Angew. Bot. (cont.)

Schwartz, W. & Kretzdorn, H.
Beiträge zur kenntnis des holzes als werkstoff. Angew. Bot. 13: 122-137. illus. Mr./Ap. 1931. no.2.
I. Untersuchungen über die struktur und quellung von okume- und birkenfurnieren.

Ann. Appl. Biol. (London)

Bennett, F. T.
Gibberella saubinetii (Mont.) Sacc. on British cereals. II. Physiological and pathological studies. Ann. Appl. Biol. 18: 158-177. illus., pl. xii-xiv. My.1931. no.2.

Mitra, M.
A new bunt on wheat in India. Ann. Appl. Biol. 18: 178-179. illus., pl. xv. My.1931. no.2.
Tilletia indica.

Norman, A. G.
The biological decomposition of plant materials. IV. The biochemical activities on straws of some cellulose-decomposing fungi. Ann. Appl. Biol. 18: 244-259. My.1931. no.2.

Smith, K. M.
Studies on potato virus diseases. IX. Some further experiments on the insect transmission of potato leaf-roll. Ann. Appl. Biol. 18: 141-157. illus., pl. xi. My.1931. no.2.

Ann. Bot. (London)

Bose, S. R.
The question of golgi bodies in the higher fungi. Ann. Bot. 45: 303-314. illus. Ap. 1931. no.178.

Brodie, H. J.
The oidia of Coprinus lagopus and their relation with insects. Ann. Bot. 45: 315-344. illus., pl. x. Ap. 1931. no.178.

Dastur, R. H. & Kapadia, G. A.
Mechanism of curvature in the tendrils of Cucurbitaceae. Ann. Bot. 45: 279-301. illus. Ap.1931. no.178.

Ann. Bot. (cont.)

Duerden, H.
On the preparation of cellulose films of fossil plants. Ann. Bot. 45: 376-378. Ap. 1931. no.178,

Gwynne-Vaughan, H. C. I. & Williamson, H. S.
Contributions to the study of Pyrenoma confluens. Ann. Bot. 45: 355-371. illus., pl. xii-xiv. Ap.1931. no.178.

Higgins, E. M.
A cytological investigation of Stypocaulon scoparium (L.) Kütz., with especial reference to the unilocular sporangia. Ann. Bot. 45: 345-353. pl. xi. Ap.1931. no.178.

Hill. A. W.
A hybrid Daphne (D. petrea, Leybold x D. cneorum, L.) Ann. Bot. 45: 229-231. illus. Ap.1931. no.178.

Leach, W.
On a simple electric immersion heater for constant temperature baths. Ann. Bot. 45: 373-376. illus. Ap.1931. no.178,

Saunders, H.
Conjugation in Spirogyra. Ann. Bot. 45: 233-256. illus. Ap.1931. no.178.

Singh, T. C. N.
Notes on the early stages in the development of the cotton-fibre and the structure of the boll and seed. Ann. Bot. 45: 378-380. illus. Ap.1931. no.178.

Sparrow, F. K.
Two new species of Pythium parasitic in green algae. Ann. Bot. 45: 257-277. illus., pl. ix. Ap. 1931. no.178,
Pythium adhaerens, P. angustatum.

Youngman, W.
Studies in the cytology of the Hibisceae. III. A study of the prophase of the nucleus of the pollen mother-cell of Thespesia populnea. Ann. Bot. 45: 211-227. pl. viii. Ap. 1931. no.178.

Ann. Jard. Bot. Buitenzorg.

Guttenberg, H. v.
Beiträge zur kenntnis der laubblatt-assimilation in den tropen. Ann. Jard. Bot. Buitenzorg 41: 105-184. 1931. no.2.

Timmermans, A. S.
Beiträge zur kenntnis der anatomie und des anormalen dickenwachstums von Phytocrene macrophylla Bl. Ann. Jard. Bot. Buitenzorg 41: 65-103. pl. xxiii-xxxiv. 1931. no.2.

Ann. Scient. Univ. Jassy

Papp, C.
Contribution à la bryogeographie des environs de Jassy. Ann. Scient. Univ. Jassy 16:555-561. map. Mr.1931. no.3/4.

Arch. Exp. Zellforsch. Gewebezücht.

Adachi, A.
Ueber die züchtung con linsenepithelzellen in vitro. Arch. Exp. Zellforsch. Gewebezücht. 10: 437-441. illus. 1931. no.4.

White, P. R.
Plant tissue cultures. The history and present status of the problem. Arch. Exp. Zellforsch. Gewebezücht. 10: 501-518. pl.9-12. 1931. no.4.

Arch. Protistenk. (Jena)

Kuschakewitsch, S.
Zur kenntnis der entwicklungsgeschichte von Volvox. Arch. Protistenk. 73: 323-330. illus. pl. 20. 1931. no.3.

Oehm. G.
Zur morphologie und anatomie der bergwerkspilze Lentinus squamosus (Schaeffer) Fries und L. squ. f. suffrutescens Brot. Arch. Protistenk. 73: 371-422. illus., pl. 22. 1931. no.3.

Schreiber, E.
Ueber reinkulturversuche und experimentelle auxosporenbildung bei Melosira nummuloides. Arch. Protistenk. 73: 331-345. illus., pl.21. 1931. no.3.

Arch. Protistenk. (cont.)

Valkanov, A.
Beitrag zur kenntnis der süsswasserphycomycetes Bulgariens. Arch. Protistenk. 73: 361-366. illus. 1931. no.3.

Ber. Deut. Bot. Ges. (Berlin)

Blochwitz, A.
Die farbstoffe der schimmelpilze. Ber. Deut. Bot. Ges. 49: 131-137. Ap.23, 1931. no.3.

Dokturowsky, W.
Sphagnummoore in West-Kaukasien. Ber. Deut. Bot. Ges. 49: 147-152. Ap.23, 1931. no.3.

Finn, W. W.
Zur geschichte der entdeckung der doppelten befruchtung. Ber. Deut. Bot. Ges. 49: 153-157. illus. Ap.23, 1931. no.3.

Krafczyk, H.
Die zygosporenbildung bei Pilobolus cristallinus. Ber. Deut. Bot. Ges. 49: 141-146. illus. Ap.23, 1931. no.3.

Molisch, H.
Ein neues vorkommen von cumarin. Ber. Deut. Bot. Ges. 49: 138-140. Ap.23, 1931. no.3.

Tobler, F.
Der fall des Chiodecton sanguineum (Sw.) Wainio. Ein beitrag zur stoffwechselphysiologie der flechten. Ber. Deut. Bot. Ges. 49: 158-166. illus. Ap.23, 1931. no.3.

Bergcultures. (Batavia, Java)

Cinchona culture in Java. Its history and present situation. Bergcultures 5: 481-496. My.2, 1931. no.18.

Lecture read by M. Kerbosch, director, Cinchona Exp. Sta. "Tjinjiroean, celebrating 300th anniversary of first recognised use of cinchona, held Mo. Bot. Gard., St.Louis."

Verslag van de ziekten en plagen van de Hevea brasiliensis in 1930. Bergcultures 5: 421. Ap.18, 1931. no.16.

Biol. Zentralbl. (Leipzig)

Haberlandt, G.

Was sind die Crataegomespili? Biol. Zentralbl. 51: 253-259. illus. 1931. no.5.

Bol. Min. Agr. Nac. Argentine.

Croce, F. M.

Daños que ocasionan a la fruticultura las heladas de primavera y medios de evitarlos. Bol. Min. Agr. Nac. Argentine 29: 355-450. illus. O./D. 1930 (Rec'd My.1931) no.4.

Marchionatto, J. B.

Sobre algunos hongos parásitos de las gramíneas tóxicos para le ganado. Bol. Min. Agr. Nac. Argentine 29: 457-462. illus. O./D.1930 (Rec'd My.1931) no.4.

Bot. Jahrb. Engl. (Leipzig)

Andréanszky, G.

Beiträge zur kenntnis der nordafrikanischen arten der gattung Ephedra. Bot. Jahrb. Engl. 64: 261-265. pl. xii-xiii. My.12, 1931. no.2/3.

Bojko, H.

Der wald im Langenthal (Val. lungo) (cont.) Bot. Jahrb. Engl. 64: 145-164. illus. (maps) My.12, 1931. no.2/3.

Diels, L.

Zum gedächtnis von Adolf Engler, geb. 25. März 1844, gest. 10. Oktober 1930. Bot. Jahrb. Engl. 64: i-lvi. port. My.12, 1931. no.2/3.

Verzeichnis der schriften von A. Engler in chronologischer folge: p.xl-lvi.

Schoennagel, E.

Chromosomenzahl und phylogenie der saxifragaceen. Bot. Jahrb. Engl. 64: 266-288. illus. My.12, 1931. no.2/3.

Schuster, J.

Ueber das verhältnis der systematischen gliederung, der geographischen verbreitung und der paläontologischen entwicklung der cycadaceen. Bot. Jahrb. Engl. 64: 165-260. pl. iv-xi. My.12, 1931. no.2/3.

Bot. Not. (Lund, Sweden)

Ahlner, S.

Evernia divaricata (L.) Ach. funnen med soredier. Bot. Not. 1931: 219-221. illus. no.3.

Bot. Not. (cont.)

Hässler, A.
Bidrag till kännedomen om mossfloran k Mo. härad k nordvästra Småland. Bot. Not. 1931: 185-195. no.3.

Henriksson, J.
Om Corylus avellana. Bot. Not. 1931: 213-218. illus. no. 3.

Mörner, C. Th.
Sällsynt jordstjärna i sin prydno. [Jämte notis angående en anna buksvamp] Bot. Not. 1931: 196-200. illus. no.3.

Sylvén, N.
Tvenne svenska Cerastium-hybrider. Bot. Not. 1931: 161-173. illus. no.3.

Tjebbes, K.
Orientierende untersuchungen über fertilität bei petunia. Bot. Not. 1931: 174-184. no.3.

Wiger, J.
Nya adventivfynd och växtlokaler från Halland. Bot. Not. 1931: 201-206. no.3.

Bull. Bi-Mens. Soc. Linn. Lyon.

Gilbert, E. J.
Notules sur les amanites [V] Bull. Bi-Mens. Soc. Linn. Lyon 9: 120-123. N.5, 1930. (Rec'd My. 1931) no.17.

Bull. Misc. Inform. Kew (London)

Bullock, A. A.
The genus Kraussia. Bull. Misc. Inform. Kew. 1931: 254-257. no.5.
K. incerta, K. speciosa, n.spp.

Craib, W. G.
Contributions to the flora of Siam. Additamenta XXXI. Bull. Misc. Inform. Kew 1931: 275-280. no.5.

Bull. Misc. Inform. Kew (cont.)

Fischer, C.E.C.
The flora of Madras. VII. Bull. Misc. Inform. Kew 1931: 257-266. no.5.

Fischer, C.E.C.
Plants new to Assm: III. Bull. Misc. Inform. Kew 1931: 281-285. illus. no.5.
Impatiens cothurnoides, Jasminum wengeri, Mantisia wengeri, n.spp.

Francis, W. D.
Eucalyptus patellaris. Bull. Misc. Inform. Kew 1931: 285. no.5.

Francis, W. D.
The habitat of Patersonia macrantha. Bull. Misc. Inform. Kew. 1931: 285-286. no.5.
Writer thinks Port Essington, Australia correct locality, as given in the original inscription on type specimen sheet.

Howes, F. N.
The loofah industry. Bull. Misc. Inform. Kew. 1931: 266-270. no.5.

Hutchinson, J.
General Smuts' botanical expedition to northern Rhodesia, 1930. Bull. Misc. Inform. Kew 1931: 225-254. illus. no.5.

Hutchinson, J.
Tropical African plants VIII. Bull. Misc. Inform. Kew 1931: 270-275. no.5.

Bull. Soc. Mycol. France (Paris)

Carini, G.
L'Amanita aspéra est inoffensive. Bull. Soc. Mycol. France 46: 213-214. Ap.25, 1931. no.3/4.

Gilbert, E. J.
Notules sur les Amanites. VI. Bull. Soc. Mycol. France 46: 157-176. Ap.25, 1931. no.3/4.

Bull. Soc. Mycol. France. (cont.)

Josserand, M.
Note sur Russula fusca Quél. et R. mustelina Fr. Bull. Soc. Mycol. France 46: 195-198. illus. Ap.25, 1931. no.3/4.

Maire, R.
Etudes mycologiques. IV. Bull. Soc. Mycol. France 46: 215-244. illus., pl.x. Ap.25, 1931. no.3/4.

Savulescu, T. & Sandu-ville, C.
Contribution à la connaissance des Micromycètes de Roumanie. Bull. Soc. Mycol. France 46: 177-192. Ap.25, 1931. no.3/4.

Société mycologique de France
Atlas de planches coloriées. pl. xxxviii-xli. In its Bulletin v.46, Ap.25, 1931. no.3/4.
Naucoria christinae, N. lugubris, Hygrophorus lacmus. Tricholoma fucatum.

Werner, R. G.
Etude comparative de la germination des spores de lichens. Bull. Soc. Mycol. France 46: 199-206. pl. ix. Ap.25, 1931. no.3/4.

Bull. Soc. Nat. Acclim. France (Paris)

Vilmorin, R. de.
La théorie chromosomique et ses applications. Bull. Soc. Nat. Acclim. France 78: 121-127. illus. Ap.4, 1931. no.4.

Bull. So. Africa Dept. Agr.

Reinecke, O.S.H.
Die-back of fruit trees in the western Cape Province. Bull. Soc. Afr. Dept. Agr. 97. 16 p. illus. 1931.

Bull. Torr. Club.

Bowers, C. G.
The development of pollen and viscin strands in Rhododendron catawbiense. Bull. Torr. Club. 57: 285-313. pl.11-15. My.1930(Rec'd My.1931) no.5.

Bull. Torr. Club. (cont.)

Coburn, H. R. & Dean, D. L.
The effect of increased activities and change in mode of transportation upon the distribution of introduced species in the vicinity of Douglas Lake, Michigan. Bull. Torr. Club. 57: 339-346. My.1930(Rec'd 1931) no.5.

Cooper, W. S.
The seed-plants and ferns of the Glacier Bay National Monument, Alaska. Bull. Torr. Club 57: 327-338. My.1930(Rec'd My.1931) no.5.

Johansen, D. A.
Studies on the morphology of the Onagraceae IV. Stenosiphon linifolium. Bull. Torr. Club 57: 315-326. pl. 16. My.1930(Rec'd My.1931) no.5.

Ma, R. M.
The chloroplasts of Selaginella. Bull. Torr. Club. 57: 277-284. pl.10 (col.) My.1930(Rec'd My. 1931) no.5.

Bull. U.S. Golf Assoc. Green Sect. (Washington)

Painter, J. C.
A new elm for the plains states. Bull. U.S. Golf Assoc. Green Sect. 10: 184-185. illus. O.1930(Rec'd Je.1931) no.10.
Ulmus pumila.

Calif. Citrogr. (Los Angeles)

Fawcett, H.
Observations on citrus conditions in Mediterranean countries. V. Palestine. Calif. Citrogr. 16: 374, 392. illus. Je.1931. no.8.

Canada Dept. Agr. Pamph.

Berkeley, G. H.
Black knot of plums. Canada Dept. Agr. Pamph. no. 136. 3 p. illus. 1931.
Studies in fruit diseases. V.

Compt. Rend. Acad. Agr. France (Paris)

Deshusses, L. & Deshusses, J.
Détermination du pouvoir insecticide du pyrèthre. Compt. Rend. Acad. Agr. France 17: 517-520. Ap.29, 1931. no.13.

Compt. Rend. Acad. Agr. France. (cont.)

Schribaux, E.

Etude sur la résistance du froid du blé et de l'avoine. Compt. Rend. Acad. Agr. France 17: 580-583. My.13, 1931. no.15.

Compt. Rend. Acad. Sci. Paris.

Becquerel, P.

Développement de la fougère male en culture pure aseptique à partir de la spore. Compt. Rend. Acad. Sci. Paris 192: 1265-1268. My.18, 1931. no.20.

Carpentier, A.

Note sur quelques empreintes de graines et ptéridospermées. Compt. Rend. Acad. Sci. Paris 192: 1260-1261. My.18,1931. no.20.

Chaze, J.

Preuves expérimentales de l'excrétion de la nicotine dans les parties aériennes de la plante de tabac. Compt. Rend. Acad. Sci. Paris 192: 1268-1269. My.18, 1931. no.20.

Guillaumin, A.

Transformation de la partie inférieure de l'axe d'inflorescence en crochet chez les Uncaria. Compt. Rend. Acad. Sci. Paris 192: 1264-1265. My.18, 1931. no.20.

Hayata, B.

Le système dynamique des plantes fondé sur la théorie de la participation. Compt. Rend. Acad. Sci. Paris 192: 1286-1288. My.18, 1931. no.20.

Laurin, J.

Action hypoglycémiante des bulbes de Allium cepa L. Compt. Rend. Acad. Sci. Paris 192: 1289-1291. My.18, 1931. no.20.

Py, G.

Sur l'evolution des constituents cytoplasmiques de l'assise nourricière du pollen chez Vincetoxicum officinale. Compt. Rend. Acad. Sci. Paris 192: 1262-1263. illus. My.18, 1931. no.20.

Compt. Rend. Soc. Biol. Paris

Bretin, Ph., Manceau, P. & Rey, J.
Absorption du cuivre par le Penicillium glaucum cultivé sur liquide type de Raulin, additionné de doses croissantes d'un sel organique de cuivre (acétate). Compt. Rend. Soc. Biol. Paris 107: 154-155. Mr.18,1931. no.15.

Goncalves da Cunha, A.
L'anatomie des nectaires du pétiole de la feuille de Ricinus communis. Compt. Rend. Soc. Biol. Paris 107: 90-91. My.18,1931. no.14.

Lacassagne, A. M. B. & Holweck, F.
Les qualité qu'offre Polytoma uvella pour l' etude de la radiosensibilité cellulaire. Compt. Rend. Soc. Biol. Paris 107: 120-122. Mr.18, 1931.

Lenoir, M.
Nouvelles observations sur la division de l' antipode primordial dans le sac embryonnaire du Fritillaria imperialis L. Compt. Rend. Soc. Biol. Paris 107: 45-47. My.8, 1931. no.14.

Manceau, P.
Réactions du Penicillium glaucum cultivé sur liquide type de Raulin additionné de doses croissantes de nickel et de cobalt; métabolisme des sucres. Compt. Rend. Soc. Biol. Paris 107: 161. Mr.18, 1931. no.15.

Raybaud, L.
Contribution a l'étude du Mucor racemosus. Germination de la spore. Compt. Rend. Soc. Biol. Paris 107: 49-51. My.8,1931. no.14.

Sartory, A., Sartory, R. & Meyer, J.
Etude d'un Fusarium nouveau: Fusarium citrulli Compt. Rend. Soc. Biol. Paris 107: 55-57. My.8, 1931. no.14.

Cytologia (Tokyo)

Kihara, H.
Genomanalyse bei Triticum und Aegilops. Cytologia 2: 106-156. illus., pl. 7-9. Mr.1931. no.2.
II. Aegilotricum und Aegilops cylindrica.

Cytologia (cont.)

Yazawa, H.
On the spermatogenesis in Makinoa crispata (St.) Miyake. Cytologia 2: 157-173. illus. Mr. 1931. no.2.

Zirkle, C.
Nucleoli of the root tip and cambium of Pinus strobus. Cytologia 2: 85-105. pl.3-6. Mr. 1931. no.2.

Deutsche Forst.-Zeit. (Neudamm)

Liese, J.
Starke schäden durch den pappelkrebs. Deutsche Forst-Zeit. 46: 465-466. illus. My.8, 1931. no.19.

Facts about sugar (New York)

Bird, M.
The toxic action of magnesia on cane. Presence in soil found to be cause of crop injury in British Guiana formerly attributed to root disease. Facts about Sugar 26: 263. Je.1931. no.6.

Cook, M. T.
Gummosis of P.O.J. 2878 cane in Porto Rico. Facts about Sugar 26: 257. Je.1931. no.6.

Nuckols, S. B.
Effects of "black root" in beets. Experimental studies show importance of removing plants affected with disease at time of thinning crop. Facts about Sugar 26: 260-262, 264. illus. Je.1931. no.6.

Flor. Exch. (N.Y.)

Irrigation and gladiolus scab control. Flor. Exch. 77(5): 33. My.30, 1931.
Reports of further experiments conducted by E. M. Herrick at Ohio State University in 1930.

Gard. Chron. (London)

Brown, N. E.
Mesembryanthemum. (cont.) Prepodesma, N.E. Br. Gard. Chron. III, 89: 389. illus. My.23, 1931. no. 2317.

Gard. Chron. (cont.)

Friend, H.
Horticulture in relation to commerce. VIII. The fragrant weed. Gard. Chron. III, 89: 374. illus. My.16, 1931. no.2316.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 89: 391. My.23, 1931. no.2317.

Wall, A.
Ranunculus paucifolius, T. Kirk. Gard. Chron. III, 89: 375. illus. My.16, 1931. no.2316.

Gard. Chron. Amer.

Mayer, G. P. A.
Narcissi. Their history and development. Gard. Chron. Amer. 35: 228, 241. Je. 1931. no.6.

McCully, A.
Minature irises for the rock garden. Gard. Chron. Amer. 35: 225-226, 241. illus. Je. 1931. no.6.

Wood, C. W.
Gardens of colonial days. Gard. Chron. Amer. 35: 217-218. Je.1931. no.6.

Gartenbauwiss. (Berlin)

Moog, H.
Ueber Aramon x Riparia 143^{B} M.G. Gartenbauwiss. 4: 497-512. illus. My.7, 1931. no.6.

Uphof, J. C. Th.
Wissenschaftliche beobachtungen und versuche an agrumen. I. Gartenbauwiss. 4: 513-520. My.7, 1931. no.6.
I. Ueber die blütenverhätnisse der Tahitilimonelle.

Zahn, H.
Untersuchungen über späfrostschäden an der rebe. Gartenbauwiss. 4: 553-618. illus. My.7, 1931. no.6.

Gartenw. (Berlin)

Haenchen, F.
Chromosomenverdoppelung und gärtnerische. züchtung. Gartenw. 35: 269-270. illus. My.15, 1931. no.20.

Hadar (Palestine Citrogr.) (Jaffa)
Reichert, I. & Littauer, F.
Preliminary disinfection experiments against mould wastage in oranges. Hadar (Palestine Citrogr.) 4: 92-94. Ap.1931. no.4.

Hereditas (Lund)
Müntzing, A.
Note on the cytology of some apomictic Potentilla-species. Hereditas 15: 166-178. illus. 1931. no.2.

Tjebbes, K.
Two linkage groups in the garden bean. Hereditas 15: 185-193. 1931. no.2.

Wahlund, S.
Gelbrostbestimmungen an wintergerste. Eine statistisch-methodologische untersuchung. Hereditas 15: 194-212. 1931. no.2.

Wanscher, J. H.
Studies on the chromosome numbers of the Umbelliferae. Hereditas 15: 179-184. illus. 1931. no.2.
(A preliminary report)

Winge, O.
X- and Y- linked inheritance in Melandrium. Hereditas 15:127-165. illus. 1931. no.2.

Helvetica Chim. Acta (Basel)
Karrer, P. & others.
Pflanzenfarbstoffe. XXX. Beiträge zur kenntnis des carotins, der xanthophylle, des fucoxanthins und capsanthins. Helvetica Chim. Acta 14: 614-632. 1931. no.3.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)
Kylin, H.
Ueber das vorkommen von Äpfelsäure bei einer braunalge. Hoppe-Seyl. Zeitschr. Phys. Chem. 197: 7-11. My.11,1931. no.1/4.
Desmarestia irridis.

Indian Journ. Agr. Sci. (Calcutta)

Bose, R. D.
Studies in Indian barleys. I-II. Indian Journ. Agr. Sci. 1: 58-89, 90-108. illus., pl. iv-xiii. F.1931.
P.D. Dixit joint author II.
I. Classification of types isolated at Pusa.
II. The root-system.

Mohammad, A., Singh, R. D. & Alam, Z.
Some breeding investigations on toria (Brassica napus L. var. dichotoma Prain) and sarson (Brassica campestris L. var. sarson Prain. Indian Journ. Agr. Sic. 1: 109-136. pl.xiv-xv. F.1931. no.1.

Shaw, F. J. F., Khan, A. R. & Alam, M.
Studies in Indian oil-seeds. V. The inheritance of characters in Indian linseed. Indian Journ. Agr.Sci. 1: 1-57. pl.i-iii. (col.) F. 1931.no.1.

Iowa State Coll. Journ. Sci. (Ames, Ia.)

Haber, E. S.
Acidity and color changes in tomatoes under various storage temperature. Iowa State Coll. Journ. Sci. 5: 171-184. Ap.1931. no.3.

Journ. Agr. Res. (Washington, D. C.)

Andrus, C. F.
The mechanism of sex in Uromyces appendiculatus and U. vignae. Journ. Agr. Res. 42: 449-587. illus. My.1,1931. no.9.

Armstrong, G. M. & Albert, W. B.
A study of the cotton plant with especial reference to its nitrogen content. Journ. Agr. Res. 42: 689-703. My.15,1931. no.10.

Caskey, C., jr. & Gallup, W. D.
Changes in the sugar, oil, and gossypol content of the developing cotton boll. Journ. Agr. Res. 42: 671-673. My.15,1931. no.10.

Garner, W. W. & Allard, H. A.
Effect of abnormally long and short alterations of light and darkness on growth and development of plants. Journ. Agr. Res. 42: 629-651. illus. My.15, 1931. no.10.

Journ. Agr.Res. (cont.)

Harrison, G. J.
Metaxenia in cotton. Journ. Agr.Res. 42: 521-544. illus. My.1,1931 no.9.

Jenkins, A. E.
Development of the citrus-scab organism, Sphaeloma fawcettii. Journ. Agr. Res. 42: 545-558. illus., col.pl. My.1, 1931.

Lauritzen, J. I.
Some effects of chilling temperatures on sweet potatoes. Journ. Agr. Res. 42: 617-627. col.pl. My.15, 1931.no.10.

Journ. Arnold Arb.(Cambridge, Mass.)

Chester, K. S.
Graft-blight: a disease of lilac related to the employment of certain understocks in propogation. Journ. Arnold Arb. 12: 79-146. pl.31-34. Ap.1931. no.2.

Journ. Dept. Agr. So. Australia (Adelaide)

Quinn, G.
The origin and history of the Cleopatra apple. Journ. Dept. Agr. So.Australia. 34: 910-913. illus. Ap.15, 1931. no.9.

Journ. Dept. Agr. Victoria (Melbourne)

Grieve, B. J.
Rose diseases and their control. VII. Brown canker of roses. Journ. Dept. Agr. Victoria 29: 209-212. Ap.1931. no.4.

Twentyman, R. L.
Experiments on the control of "stinking" smut or bunt. Journ. Dept. Agr. Victoria 29: 201-208. illus. Ap.1931. no.4.

Journ. Indian Chem. Soc. (Calcutta)

Malhotra, R. C.
A modification of Pervier and Gortner's method for the estimation of pentosans in plant tissues. Journ. Indian Chem. Soc. 8: 51-58. illus. F.1931. no.2.

Journ. N.Y. Bot. Gard.

Buxton, B. W.
Begonias as house plants. Journ. N.Y. Bot. Gard. 32: 113-115. My.1931. no.377.

Dodge, B.O.
Studies in the genus Gymnosporangium. V. A destructive red-cedar rust disease. Journ. N.Y. Bot. Gard. 32: 101-108. illus. My. 1931. no.377.

Small, J. K.
The water-lilies of the United States. Journ. N.Y. Bot. Gard. 32: 117-121. illus. My.1931. no.377.

Journ. Soc. Trop. Agr. Japan. (Tiwan)

Kudo, Y.
Materials for a flora of Formosa. III. Journ. Soc. Trop. Agr. Japan. 3: 16-19. My.1931.no.1.

Masamune, G.
Contribution to our knowledge of the flora of the southern part of Japan. IV. Journ. Soc. Trop. Agr. Japan 3: 20-23. My.1931. no.1.

Matsumoto, T. & Somazawa, K.
Immunological studies of mosaic diseases. 1. Effect of formolization, trypsinization and heat-inactivation on the antigenic properties of tobacco mosaic juice. II. Journ. Soc. Trop. Agr. Japan. 3: 24-32. My.1931. no.1.

Landbouw Tijdschr. Vereen. Landb. Nederl.-Indie.

Toxopeus, H. J.
Ervaringen en resultaten van het in 1928, 1929 en 1930 uitgevoerde kruisingswerk in citrus. (Experiences and results in citrus crossing) Landbouw. Tijdschr. Vereen. Landb. Nederl.-Indie. 6: 807-819. F.1931.no.8.
English summary: p.819.

Madras Agr. Journ.

Narasimha Acharya, C.
The relation between growth and intake of nutrients in the cholam plant. Madras Agr. Journ. 19: 157-169. 2 pl. Ap.1931. no.4.

Malayan Agr. Journ. (Kuala Lumpur)

Bunting, B.

Tung oil or Chinese wood oil. Malayan Agr. Journ. 19: 155-165. Ap.1931. no.4.

Thompson, A.

Prevention and treatment of stem-rot of oil palms. Malayan Agr. Journ. 19: 185-189. Ap.1931. no.4.

Extract from Special Bull. entitled "Stem-rot of the oil palm in Malaya", in press.

Meded. Deli Proefst. Medan, Sumatra.

Muijper, J.

Verslag van het Deli proefstation over het jaar 1930. Meded. Deli Proefst. Medan, Sumatra II, 68: 1-61. [1931]

Mem. R. Acad. Cienc. y Artes Barcelona

Bofill y Pichot, D.J.M.

De patologia vegetal II. Mem. R. Acad. Cienc. y Artes Barcelona III, v.22, no.15. 15 p. illus. F.1931.

Mezogazd. Kutat. Budapest.

Tereny, S.

Gyümölcsfak gombabetegségi ellen használatos permetezószerek értékelese (Die wertung der gegen die pilzkrankheiten der obstbäume gebrauchten spritzmittel). Mezógazd. Kutat. Budapest 4: 143-152. Ap.1931. no.4.

German summary: p.150-151.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Lange, W.

Betrachtungen über physiognomie und charakter der pflanzen. III. Moller's Deut. Gärtn.-Zeit. 46: 175-176. My.21, 1931. no.15.

Nat. Canad. (Quebec)

Amours, O.C.de.

La théorie des chromosomes. Son origine - Son explication - Sa valeur - Son utilite. (concl.) Nat. Canad. 58: 97-104. My.1931.no.5.

Caron, O.

Anacharis vs. Elodea canadensis. Nat. Canad. 58: 113-114. My.1931.no.5.

Nature (London)

Brown, C.H., Selim, A.E.G. & Balls, W.L.
The wall of the cotton hair. Nature 127: 742-743. My.16, 1931.no.3211.

Darlington, C.D.
Cytological theory in relation to heredity. Nature 127: 709-712. My.9,1931. no.3210.

Smith, K. M.
Composite nature of certain potato viruses of the mosaic group. Nature 127: 702. My.9, 1931. no.3210.

Naturforsch. (Berlin)

Hubner, B.
Lipmaas pigmenttypen und phytochromatisches sektrum bei den heheren pflanzen. Naturforsch. 8: 75-78. My.1931. no.2.

Naturwissensch.(Berlin)

Merker, E.
Die fluoreszenz der von pflanzen und tieren, bewohnten gewässer und ihre verminderte lichtdurchlässigkeit. Naturwissensch. 19: 433-435. illus. My.22, 1931. no.21.

Tobler, F.
Untersuchungen und betrachtungen über immunität und immunisierung im pflanzenreich. Naturwissensch. 19: 413-416. My.15, 1931. no.20.

Vermast, P.G .F.
Die carotinoide von Citrus aurantium. Naturwissensch. 19: 442-443. My.22, 1931. no.21.

Northwest Science (Cheney)

Cope, R.P. & Strauch, H.J.
Benzoic acid content of western grown cranberries. Northwest Science 5: 19-20. Mr.1931. no.1.

Sprague, R.
The distribution of cereal footrots in the Pacific northwest. Northwest Science 5: 10-12. Mr.1931. no.1.

Pam. Panstw. Inst. Nauk. Gospod. Wiejsk. Puławach (Mem. Inst. Nat. Polon. Econ. Rur. Pulawy) (Krakow)

Bezradecki, S.
Przyczynek do poznania niektorych ras jeczmienia nagiego. (A contribution to the knowledge of some breeds of Hordeum nudum). Pam. Panstw. Inst. Nauk. Gospod. Wiejsk. Puławach (Mem. Inst. Nat. Polon. Econ. Rur. Pulawy). 11: 28-38. illus. 1930. no 1.
English summary: p.38.

Czarnocka, J.
Przycynek do poznanai gatunku Secale cereale L. i niektorych jego odmian krajowych. (Contribution à l'étude de l'espèce Secale cereale L. et de quelques variétes du pays de ce blé) Pam. Panstw. Inst. Nauk. Gospod. Wiejsk. Puławach (Mém Inst. Nat. Polon. Econ. Rur Pulawy) 11: 70-110 1930 no.1.
French summary: p.108-110.

Horowitz, B.
Badania nad makiem siewnym (Papaver somniferum L.) (Untersuchungen über Papaver somniferum L.) Pam. Panstw. Inst. Nauk. Gospod. Wiejsk. Puławach (Mém. Inst. Nat. Polon. Econ. Rur. Pulawy) 11: 159-217. illus. 1930. no.1.
German summary: p.213-217.

Horowitz, B.
Kilka spostrzezeń nad koniczyna czerwona. (Einige beobachtungen über rotklee). Pam. Panstw. Inst. Nauk. Gospod. Wiejsk. Puławach (Mém. Inst. Nat. Polon. Econ. Rur. Pulawy) 11: 39-60. illus. 1930. no.1.
German summary: p.58-60.

Jankowska, K.
Spostrzezenia nad grzybem szklarniowym (Moniliopsis aderholdi Ruhl.) (Observations on the fungus Moniliopsis aderholdi Ruhl.) Pam. Panstw. Inst. Nauk. Gospod. Wiejsk. Puławach (Mem. Inst. Nat. Polon. Econ. Rur. Pulawy) 11: 61-69. illus. 1930. no.1.
English summary: p.68-69.

Papers & Proc. R. Soc. Tasmania (Hobart)

Scott, H.H.
Tasmanian Cycadophyta. Papers & Proc. R. Soc. Tasmania 1930: 90-93. pl.i-iii. 1931.

Papers & Proc. R. Soc. Tasmania (cont.)

Stuart-Dove, H.

On the sporophore of the native bread (Polyporus mylitta). Papers & Proc. R. Soc. Tasmania 1930: 94-95. pl.iv. 1931.

Pharm. Zentralh. (Dresden)

Richter, J.

Die wärme und die pflanze. Pharm. Zentralh. 72: 289-293. My.7, 1931. no.19.

Phytopath.

Dana, B.F. & Wolff, S.E.

The occurrence of violet root rot in central Texas. Phytopath. 21: 557-558. illus. My. 1931. no.5.

Dana, B. F.

Soil cultures for the laboratory production of sclerotinia in Phymatotrichum omnivorum. Phytopath. 21: 551-556. illus. My.1931. no.5.

Fawcett, H. S.

The importance of investigations on the effects of known mixtures of microorganisms. Phytopath. 21: 545-550. My.1931. no.5.

Hamilton, J.M.

Studies of the fungicidal action of certain dusts and sprays in the control of apple scab. Phytopath. 21: 445-523. illus. My.1931. no.5.

Jenkins, A.E.

Additional data on the range and prevalence of lima-bean scab. Phytopath. 21: 559. My.1931.no.5.

Johnston, C.O. & Mains, E.B.

Relative susceptibility of varieties of sorghum to rust, Puccinia purpurea. Phytopath. 21: 525-543. illus. My. 1931. no.5.

Pineapple Quart. Hawaii.

Godfrey, G. H.

Nematology observations on station experiment no.15. Pineapple Quart. Hawaii. 1: 50-52. Ap. 1931. no.1.

Pineapple Quart. Hawaii (cont.)

Godfrey, G. H. & Hagan, H.R.
Some experiments on nematode control by clean fallow. Preliminary report. Pineapple Quart. Hawaii 1: 10-18. illus. Ap.1931. no.1.

Proc. Nat. Acad. Sci.

Metz, C.W.
Differences between chromosome groups of soma and germ-line in Sciara. Proc. Nat. Acad. Sci. 17: 272-275. illus. My.1931. no.5.

Repert. Spec. Nov. Fedde.(Berlin)

Feinbrun, N.
Beitrage zur kenntnis der umbelliferen transjordaniens. Repert. Spec. Nov. Fedde 29 (Repert. Europ. & Med. 3,23/25): 133-136. Ap.10, 1931. no.4/10.

Gusuleac, M.
Die monotypischen und artenarmen gattungen der anchuseae. (Caryolopha, Brunnera, Hormuzakia, Gastrocotyle, Phyllocara, Trachystemon, Procopiania und Borago) (concl.) Report. Spec. Nov. Fedde. 29(Repert. Europ. & Med. 3,23/25): 113-125. pl. cix-xciv. Ap.10, 1931. no.4/10.

Gyelnik, V.
Additamenta ad cognitionem parmeliarum. Repert. Spec. Nov. Fedde 29 (Repert. Europ. & Med. 3, 23/25): 149-157. Ap.10, 1931. no.4/10.

Knuth, R.
Dioscoreaceae novae. V. Repert. Spec. Nov. Fedde 29: 92-95. Ap.10, 1931. no.4/10.

Parker, R. N.
Additamenta ad Floram Burmanicam. I. Repert. Spec. Nov. Fedde 29: 104-106. Ap.10 1931. no.4/10.

Rechinger, K.
Floristische ergebnisse einer reise nach Bulgarien. Repert. Spec. Nov. Fedde 29 (Repert. Europ. & Med. 3, 23/25): 142-149. Ap.10, 1931. no.4/10.

Repert. Spec. Nov. Fedde (cont.)

Ronniger, K.
Eine unbescriebene Thymus- art aus ostasien.
Reprt. Spec. Nov. Fedde 29: 96. Ap.10,1931. no.4/10.
T. mandschuricus.

Slooten, D.F.
Combretaceae novae insulindanae. Repert. Spec. Nov. Fedde 29: 97-99. Ap.10,1931. no.4/10.
Ex: Bijdrage tot de kennis der combretaceën en flacourtiaceën van Nederlandsch-Indië. Inaug.-Diss. Utrecht 1919. pp.1-55

Slooten, D.F. van
Flacourtiaceae novae insulindanae. Repert. Spec. Nov. Fedde 29: 100-103. Ap.10, 1931. no.4/10.

Wimmer, F.E.
Lobelioideae aus dem museum des königl. botanischen gartens zu Kew in England und einige aus anderen sammlungen Repert. Spec. Nov. Fedde. 29: 49-92. pl.cxv-cxviii. Ap.10, 1931. no.4/10.

Zohary, M.
Zur kenntnis der cruciferen transjordaniens. Repert. Spec. Nov. Fedde 29 (Repert. Europ. & Med. 3,23/25): 126-132. Ap.10, 1931. no. 4/10.

Rep. Canada Exp. Farms.(Rep. Dom. Bot.)

Güssow, H. T.
Report of the dominion botanist for the year 1929. Rep. Canada Exp. Farms (Rep. Dom. Bot.) 1929. 234 p. illus. 1931.
Includes reports of laboratories at Sidney, B.C., Winnipeg, Edmonton, Alberta, Saskatoon, Sask., Summerland, B.C., St. Catharines, Ont., Kentville, N.S., Ste.Anne de la Pocatiere, P.Q., Fredericton, N.B., Charlottetown, P.E.I., and other pathological articles by various authors.

Rhodora (Boston)

Cory, V.L.
A new Selenia from the Edwards plateau of Texas. Rhodora 33: 142-144. Je.1931. no.390.
S.jonesii.

Rhodora (cont.)

Hellmayr, C.E. & Hellmayr, K.J.
An overlooked species of coral-root from the Rocky Mountains. Rhodora 33: 133-135. Je.1931. no.390.
Corallorrhiza wyomingensis.

Robbins, C.A.
Cladonias collected by S.F. Blake in the western United States. Rhodora 33: 135-139. pl.209. Je.1931. no.390.

Throne, A.L.
Recent contributions to the flora of Wisconsin Rhodora 33: 139-140. Je.1931. no.390.

Torrey, G.S.
Drosera rotundifolia, var. comosa in Connecticut. Rhodora 33: 144. Je.1931. no.390.

Truman, H. V.
Pollen of Sparganium americanum and S. androcladum. Rhodora 33: 141-142. Je.1931. no.390.

Science (Lancaster, Pa.)

Cahn, A.R.
Twisted trees. Science 73: 561. My.22, 1931. no.1899.

Darlington, C.D.
The mechanism of crossing-over. Science 73: 561-562. My.22, 1931. no.1899.

Phillips, M.
The isolation of normal propyl guaiacol as a degradation product of lignin. Science 73: 569-570. diagr. My.22, 1931. no.1899.

Study of yeast cells. Science v.73, no. 1900. suppl. p.10. My.22, 1931. no.1900.
Results of experiments of Dr. Helen Stantial & Dr. W. Lash Miller.

South. Flor. (Fort Worth, Tex.)

Watson, H. M.
Great Smoky Mountains Park ranks high in floral interest. South. Flor. 31(9): 10-11. illus. My.29, 1931. no.9.

Svensk Bot. Tidskr.

Aslander, A.
Studies on antagonism in acid nutrient solutions. Svensk Bot. Tidskr. 25: 77-107. illus. 1931. no.1.

Du Rietz, G. E.
The long-tubed New Zealand species of Euphrasia (Siphonidum Armstr.) Svensk Bot. Tidskr. 25: 108-125. illus. 1931. no.1.
E. wettsteiniana (Anagosperma dispermum pr.p. (non Euphrasia disperma Hook.f.)...

Lohammar, G.
The chromosome numbers of Sagittaria natans Pallas and S. sagittifolia L. Svensk Bot. Tidskr. 25: 32-35. illus. 1931. no.1.

Nannfeldt, J. A.
Contributions to the mycoflora of Sweden. Svensk Bot. Tidskr. 25:1-31. 1931. no.1.

Qvarefort, S.
Kärlväxtfloran på Runmarö. Svensk Bot. Tidskr. 25: 36-76. illus. 1931. no.1.

Tasmanian Journ. Agr.

Holland, C. A.
Eradication of Californian thistle. (Cirsium arvense) Tasmanian Journ. Agr. 2: 51-53. My.1, 1931. no.2.

Steele, R. B.
The tobacco plant. Its life history and culture in Tasmania. Tasmanian Journ. Agr. 2: 73-78. illus. My.1, 1931. no.2.

Trop. Agr. (Ceylon) (Peradeniya)

Parsons, T. H.
The mango in Ceylon. Trop. Agr. (Ceylon) 76: 199-211. Ap.1931. no.4.
Diseases: p.208-209.

Trop. Agriculture West Indies (Trinidad)

Wardlaw, C. W. & McGuire, L. P.
Banana storage. The behaviour and diseases of the banana in storage and transport with special reference to chilling. Trop. Agriculture West Indies. 8: 139-147. Je.1931. no.6.

Wright, J. & Leach, R.
Fusarium wilt disease of Sunn hemp -I. Trop. Agriculture West Indies 8: 151-160. Je. 1931. no.9.

Trudy Bot.Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) (Leningrad)

Busch, E.
.... Nouvelle Campanule du Caucase nord. Trudy Bot. Mus. Akad. Nauk. SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 215-217. illus. 1930.
Russian.
Campanula dolomitica.

Busch, N.
... Encore une nouvelle espèce du genre Isatis (Tourn.) L. provenant d'Arménie. Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 219-221. illus. 1930.
Russian.
Isatis arnoldiana.

Hase, O.
... Liste des mousses sphagnacées recueillies par B. Gorodkov dans la Sibérie occidentale et par B. Gorodkov et Sočava dans l'Oural Polaire. Trudy Bot. Mus. Akad.Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 207-213. 1930.
Russian.

Leskov, A.
... Aperçu du geographie botanique des environs du lac de Vrevo, district de Luga du gouvernement de Leningrad. Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 311-318. 1930.
Russian.

Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS)(Cont.)

Papkova, A.
... La végétation des prairies de la "pojma" de la Luga dans les limites de la région de Luga du gouvernement de Leningrad. Trudy Bot. Mus. Akad. Nauk. SSSR (Trav. Mus. Bot. Acad. Sci.URSS) 22: 329-367. 2 tabl. 1930.
Russian with German summary: p.366-367.

Rassadina, K.
... Les lichens recueillis par S. Ganesin dans le district de Luga et dans les environs de Novo-Sieverskaja, gouvernement de Leningrad. Trudy Bot. Mus. Akad. Nauk. SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 319-328. 1930.
Russian with German summary: p.328.

Rassadina, K.
... Sur les lichens du ci-devant district de Peterhof du gouvernement de Leningrad. Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 223-271. illus. 1930.
German summary: p.271.

Sambuk, F.
... Observations sur les forêts de sapins et sur les marais de source dans la vallée et dans le bassin de l'Obla, affluent de la Luga. Trudy Bot. Mus. Akad. Nauk SSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 277-310. illus. 1930.
Russian with German summary: p.308-310.

Sambuk, F.
... Précis de geographie botanique de la vallée du fleuve Petchora. Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 49-145. illus. 1930.
Russian with German summary: p.140-145.

Tolmačev, A. & Piatkov, P.
... Aperçu des plantes vasculaires de l'île Dickson. Trudy Bot. Mus. Akad. Nauk. SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 147-179. illus. 1930.
Russian.

Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad.Sci. URSS)(cont.)

Tolmačev, A.
... Sur la provenance de la flore du Vaigatch et de la Nowaia Semlia. Trudy Bot. Mus. Akad. Nauk. SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 181-205. illus. 1930.
Russian.

Tolmačev, A.
... Sur une nouvelle espèce arctique du genre Papaver. Trudy Bot. Mus. Akad. Nauk. SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 22: 369-370. 1930.
Papaver angustifolium.
Russian.

Trudy Mleevskoi Sadovo-Ogor. Opytn. Stan. (Arb. Mleewer Gartenb-Versuchsst.) (Mleev)

Nikitin, B. A.
... Cabbage plants. (Results of variety study and variety investigations 1922-1927) Trudy Mleevskoi Sadovo-Ogor. Opytn. Stan.(Arb. Mleewer Gartenb-Versuchsst.) no.33. 95 p. illus. 1930.
Russian.

Nikitin, B. A.
... Cucurbitaceous plants (Results of variety study and variety investigations 1922-1927) Trudy Mleevskoi Sadovo-Ogor. Opytn. Stan. (Arb. Mleewer Gartenb-Versuchsst.) no.37. 48 p. illus. 1930.
Russian.

Nikitin, B. A.
... Onion plants. (Results of variety study and variety investigations 1924-1927) Trudy Mleevskoi Sadovo-Ogor. Opytn. Stan. (Arb. Mleewer Gartenb-Versuchsst.) no.34. 32 p. illus. 1930.
Russian.

Nikitin, B. A.
... Solanum plants (Results of variety study and variety investigations 1922-1927). Trudy Mleevskoi Sadovo-Ogor. Opytn. Stan. (Arb. Mleewer Gartenb-Versuchsst.) no.38. 31 p. illus. 1930.
Russian.

U. S. Dept. Agr. Circ.

May, C. & Gravatt, G. F.
The Dutch-elm disease. U. S. Dept. Agr. Circ. no.170. 10 p. illus. My.1931.

U. S. Dept. Agr. Plant Dis. Rep.

Bach, W. J.
Late blight of potatoes in the Lower Rio Grande Valley of Texas. U. S. Dept. Agr. Plant Dis. Rep. 15: 46-47. Je.1, 1931. no.5.
[Mimeographed]

Lehman, S. G.
Tobacco downy mildew. North Carolina. U. S. Dept. Agr. Plant Dis. Rept. 15: 43-44. Je.1,1931. no.5.
[Mimeographed]

Martin, W. H.
Brown ring disease of the sweet potato. U. S. Dept. Agr. Plant Dis. Rep. 15: 41-42. Je.1,1931. no.5.
[Mimeographed]

Steiner, G.
Rhabditis lambdiensis maupas associated with a disease of mushrooms. U.S. Dept. Agr. Plant Dis. Rep. 15: 43. Je.1,1931. no.5.
[Mimeographed]

Steiner, G.
Tylenchus dipsaci, the bulb or stem nema parasitizing strawberry plants in North Carolina. U. S. Dept. Agr. Plant Dis. Rep. 15: 42. Je.1,1931. no.5.
[Mimeographed]

U. S. Dept. Agr. Techn. Bull.

Offord, H. R.
The chemical eradication of ribes. U. S. Dept. Agr. Techn. Bull. 240. 24 p. illus. My.1931.

U. S. Dept. Agr. Yearbook.

Carson, E. & Piemeisel, R. L.
Sugar-beet curly top's spread aided by vast increase in host weeds. U. S. Dept. Agr. Yearbook 1931: 491-493. 1931.

Charles, V. K.
Entomogenous fungi attack and destroy many harmful insects. U. S. Dept. Agr. Yearbook 1931: 211-214. illus. 1931.

U. S. Dept. Agr. Yearbook (cont.)

Coons, G. H., Stewart, D. & Elcock, H.A.
Sugar-beet strains resistant to leaf spot and curly top. U. S. Dept. Agr. Yearbook 1931: 493-496. illus. 1931.

Cotter, R. U.
Black stem rust spores combed from the air by fliers. U. S. Dept. Agr. Yearbook 1931: 116-118. illus. 1931.

Dewey, L. H.
Hemp fiber losing ground, despite its valuable qualities. U. S. Dept. Agr. Yearbook 1931: 285-287. illus. 1931.

Diehl, H. C.
Spay residue removal by latest methods is an economic benefit. U. S. Dept. Agr. Yearbook 1931: 484-487. illus. 1931.

Eggleston, W. W.
Poisonous-plant study on livestock ranges involves many problems. U. S. Dept. Agr. Yearbook 1931: 439-441. 1931.

Frothingham, E. H.
Drought may result in lasting damage to stricken forest trees. U. S. Dept. Agr. Yearbook 1931: 200-202. 1931.

Garner, W. W.
Plant growth by artificial light has possibilities. U. S. Dept. Agr. Yearbook 1931: 436-439. illus. 1931.

Gould, H. P.
Horticultural practices greatly changed in last quarter century. U. S. Dept. Agr. Yearbook 1931: 305-307. 1931.

Hart, H.
Stem-rust hazard is reduced by using the proper fertilizers. U. S. Dept. Agr. Yearbook 1931: 489-490. 1931.

U. S. Dept. Agr. Yearbook (cont.)

Hillman, F. H.
Forage-crop seed's regional origin often revealed by analysis. U. S. Dept. Agr. Yearbook 1931: 250-252. 1931.

Holbert, J. R.
Corn more resistant to cold when grown on soil rich in plant food. U. S. Dept. Agr. Yearbook 1931: 160-164. illus. 1931.

Jaggar, I. C.
Lettuce breeding for disease resistance progresses rapidly. U. S. Dept. Agr. Yearbook 1931: 348-350. illus. 1931.

Jenkins, M. T. & Richey, F. D.
Drought in 1930 showed some strains of corn to be drought resistant. U. S. Dept. Agr. Yearbook 1931: 198-200. 1931.

Johnston, C. O.
Goat grass, a new wheat-field weed, is growing troublesome. U. S. Dept. Agr. Yearbook 1931: 277-279. illus. 1931.

Lambert, E. B.
Mushroom disease known as "bubbles" controlled by exclusion and eradication. U. S. Dept. Agr. Yearbook 1931: 394-396. 1931.

McKee, R.
Crotalaria, a new green manure and forage crop, promises well in South. U. S. Dept. Agr. Yearbook 1931: 180-182. illus. 1931.

Morrison, B. Y.
Azaleas introduced from Japan are suited to wide area in U. S. U. S. Dept. Agr. Yearbook 1931: 106-108. illus. 1931.

Nelson, E. M.
Oranges impaired in vitamin C content by arsenical spray. U. S. Dept. Agr. Yearbook 1931: 416-418. 1931.

Pieters, A. J.
Lespedezas introduced from Asia thrive in widening area in U. S. U. S. Dept. Agr. Yearbook 1931: 344-348. illus. 1931.

U. S. Dept. Agr. Yearbook (cont.)

Skinner, W. W.
Insecticidal plants investigated as possible farm crops. U. S. Dept. Agr. Yearbook 1931: 318-319. 1931.

Stadler, L. J.
Hereditary mutations induced in plants by the action of X rays. U. S. Dept. Agr. Yearbook 1931: 287-289. 1931.

Stevens, N. E.
Cranberry industry in critical state through false-blossom disease. U. S. Dept. Agr. Yearbook 1931: 174-176. illus. 1931.

Strong, C. C.
Blister-rust control is aided by power devices for spraying host plants. U. S. Dept. Agr. Yearbook 1931: 118-120. illus. 1931.

Wright, R. C.
Tomato ripening after frost requires proper handling and storage. U. S. Dept. Agr. Yearbook 1931: 523-525. 1931.

Věstnik Ceskosl. Akad. Zeměd. (Praha)

Ille, R.
Pajadro a mrazové jádro bukových kmenú. (Falschkern und forstkern der buchenstämme). Věstnik Ceskosl. Akad. Zeměd. 7: 533-536. illus. My.1931. no.5.
German translation: p.535-536.

Mostovoj, K. I.
Příspevek k morfologii kvètenstvi a vètveni u obilnin, zvláště ječmene (A contribution to the morfology of the inflorescence and branching of the cereals, especially of the barley) Věstnik Ceskosl. Akad. Zeměd. 7: 515-520. illus. My. 1931. no.5.
English translation: p.518-520.

Polanský, B.
Badan (Saxifraga crassifolia L.) a jeho význam pro lesni hospodářstvi. (Badan (Saxifraga crassifolia L.) und ihre beduetung für die forstwirtschaft) Věstnik Ceskosl. Akad. Zeměd. 7: 529-533. illus. My.1931. no.5.
German translation: p.531-533.

Vict. Nat. (Melbourne)

Nicholls, W. H.

A new Australian terrestrial orchid. Vict. Nat. 48: 15-17. illus. My.1931. no.1.
Caleana nublingii.

Pescott, E. E.

The wild flower and native plants protection act. Vict. Nat. 48: 18-19. My.1931. no.1.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Garnet-Hofmann, H.

Der einfluss von menge und beschaffenheit des saatguts auf das ergebnis von getreidesortenversuchen Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 165-229. illus. My.7,1931. no.2.

Milatz, R.

Die anwendung der biologischen variations-statistik zur unterscheidung von getreidesorten in kritisch-experimenteller betrachtung. Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 260-298. illus. My.7, 1931. no.2.

Zeitschr. Pilzk. (Leipzig)

Friese, W.

Aus der pilzberatungsstelle der Staatl. landes-stelle für öffentliche gesundheitspflege zu Dresden. Zeitschr. Pilzk. 15(n.s.10): 52-54. Ap.28, 1931. no.2.

Herrfurth, D.

Nochmals Lepiota rhacodes Vitt. (safranschirmling) Zeitschr. Pilzk. 15(n.s.10): 50-52. Ap.28,1931. no.2.

Kallenbach, F.

Polyporoide (porlingsähnliche) missbildungen beim champignon und ähnliche bildungsabweichungen. Zeitschr. Pilzk. 15(n.s.10): 54-57. Ap.28, 1931. no.2.

Killermann, S.

Einige ärzte in der mykologie des vergangenen jahrhunderts. Zeitschr. Pilzk. 15(n.s.10): 34-37. Ap.28, 1931. no.2.

Zeitschr. Pilzk. (cont.)

Laubert, R.
Schmarotzerpilze aus den Sudeten.
Zeitschr. Pilzk. 15(n.s.10): 42-49. Ap.28, 1931. no.2.

Passecker, F.
Der feld-trichterling, Clitocybe dealbata (Sow.) Gill. als schädling in champignonkulturen.
Zeitschr. Pilzk. 15(n.s.10): 38-41. illus. Ap.28, 1931. no.2.

Zeitschr. Züchtt. A. Pflanzenzücht. (Berlin)

Knapp, O.
Lupinus albus. Eine historische, sowie botanisch-variationsstatistische studie. Zeitschr. Züchtt. A. Pflanzenzücht. 16: 279-335. illus. Ap.1931. no.2.

Nicolaisen, W.
Beitrag zur immunitätszüchtung des hafers gegen Ustilago avenae (Pers.) Jens. Zeitschr. Züchtt. A. Pflanzenzücht. 16: 256-278. Ap.1931. no.2.

Raum, H.
Ueber die vererbung von ähreneigenschaften bei kruezungen zwischen emmer- und dinkelreihe des weizens. Zeitschr. Züchtt. A. Pflanzenzücht. 16: 161-247. 7 pl. on 4. Ap.1931. no.2.

Der Züchter. (Berlin)

Emme, H.
Genetik der hafers. Der Züchter 2: 109-124. Ap.1931. no.4.

Sengbusch, R. V.
Bitterstoffarme lupinen. II. Der Züchter 3: 93-109. illus. Ap.1931. no.4.

Snell, K.
Sorteneigenschaft und sortenmerkmal. Der Züchter 2: 124-127. illus. Ap.1931. no.4.

Exper. Stat. Publ.

King, B. M.
Cotton production in Missouri. Missouri Agr. Exp. Stat. Bull. 299. illus. 34 p. Mr.1931.
Cotton diseases: p.31-34.

Stadler, L. J. & Kirkpatrick, R. T.
Columbia oats, a new variety for Missouri. Missouri Agr. Exp. Stat. Bull. 296. 12 p. illus. F.1931.

Talbert, T. J. & Swartwout, H. G.
Spraying investigations. Missouri Agr. Exp. Stat. Bull. 301. 16 p. illus. Ap.1931.

Kiesselbach, T. A. & Lyness, W. E.
Variety tests of oats, barley, and spring wheat. Nebraska Agr. Exp. Stat. Bull. 253. 23 p. illus. Mr.1931.

Huckett, H. C.
Spraying and dusting experiments with potatoes on Long Island. New York State Agr. Exp. Stat. Bull. 592. 38 p. illus. F.1931.
1926-1930.

Rankin, W. H.
Virus diseases of black raspberries. New York State Agr. Exp. Stat. Tech. Bull. 175. 24 p. Mr. 1931.

Stevens, O. A.
North Dakota weeds (revised) North Dakota Agr. Exp. Stat. Bull. 243. 58 p. illus. D.1930.

May, C. & Liming, O. N.
A serious elm disease in Ohio. Ohio Agr. Exp. Sta. Bi-month. Bull. 150. 106-112. illus. Mr./Fe.1931.
Graphium ulmi.

Runnels, H. A. & Schaffner, J. H.
Manual of Ohio weeds. Ohio Agr. Exp. Stat. Bull. 475. 166 p. illus. Ap.1931.

González Ríos, P.
El cultivo del aguacate en Puerto Rico. Porto Rico Insular Exp. Stat. Circ. 93. 34 p. illus. 1931.

New books.

Bracci, F.
Le piante oleifere con particolare considerazione all'olivo... pt.1. Pisa, 1930.

Buller, A. H. R.
Researches on fungi. v.4. Further observations on the Coprini together with some investigations on social organisation and sex in the Hymenomycetes. London, Longmans, Green & Co., 1931.

Degener, O.
Illustrated guide to the more common or noteworthy ferns and flowering plants of Hawaii national park... Honolulu, Honolulu Star Bulletin, 1930.

Fischer, C. E. C.
Flora of the presidency of Madras. pt.9. London, Adlard & Son, 1931.

Garcke, A.
Illustrierte flora von Deutschland... 22. verbess., aufl., hrsg. von F. Niedenzu. Berlin P. Parey, 1922.

Hening, E.
Bestimmungstabellen für gräser und hülsenfrüchte im blütenlosen zustande. Berlin, J. Springer, 1930.

Hutchinson, J. & Dalziel, J. M.
Flora of west tropical Africa, the British West African colonies, British Cameroons, the French and Portuguese colonies south of the Tropic of Cancer to Lake Chad, and Fernando Po... v.2, pt.1. London, Mr.1931.

Imperial bureau of plant genetics, Cambridge, Eng.
Breeding varieties resistant to disease. Cambridge, Eng., Imperial bureau of plant genetics, [1930]
[Mimeographed.]

Johnson, A. M.
Taxonomy of the flowering plants. New York, Century Co., 1931.

New Books (cont.)

Leningrad. Akademiia nauk-- Botanucheskii muzei.
... Flora Sibiriae et orientis extremi a Museo botanico Academiae scientiarum edita. v.5, Filices by A. Fomin. Leningrad, 1930.

Nakai, T.
Flora sylvatica koreana pt.18. Piperaceae, Chloranthaceae et Salicaceae. Keijyo, 1930.

Pflanzenareale... hrsg. von E. Hannig & H. Winkler, 3 reihe, heft 2 & Sammlung kartographischer darstellungen... Jena, G.Fischer,1931.
r. 3. h. 2. Uphof, J.C.Th., Batidaceae; Donat, A., Verbreitung einiger desmidiaceen iv.; Krylow, P. Asiatisch-sibirische Corydalisarten.

Troll, H. J.
Untersuchungen über selbsterilität und selbfertilität bei gräsern. Langensalza, Hermann Beyer & Söhne, [1931]

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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Vol. 13, no. 12. June 8-20, 1931.

Addisonia (New York)

Addisonia. v.16, col.pl.513-520. Mr.1931. no. 1.

Galanthus fosteri, pl.513; Crocus vernus, pl.514; Eranthis tubergenii, pl.515; Scilla sibirica atrocoerulea, pl.516; Primula veris L., pl.517; Hyacinthus azureus, pl.518; Leucojum vernum carpathicum, pl.519, Iris verna, pl.520.

Agr. Prat. Pays Chauds (Paris)

Costantin, J.

Les maladies du cacaoyer. (cont.) Agr. Prat. Pays Chauds n.s., 2: 407-420. illus. Je.1931. no.12.

Amer. Fruit Grow. (Chicago)

Fireblight and infested beehives. Amer. Fruit Grow. 51(6): 10-11,17. illus. Je.1931.

A criticism by E .R . Root. A reply by H.R. Rosen.

Ann. di Bot. (Roma)

Bambacioni-Mezzetti, V.

Sullo sviluppo dell'embrione in Tulipa gesneriana L. Ann. di Bot. 19: 145-155. pl.vi-vii. Mr.31, 1931. no.1.

Braschi, B.

Giorgio Gallesio genetista e pomologo. Ann. di Bot. 19: 76-98. Mr.31, 1931. no.1.

Cappelletti, C.

Sull'azione dei prodotti del ricambio di miceli micorizogeni sulle piante ospiti. Ricerche fisiologiche e morfologiche. Ann. di Bot. 19: 1-62. pl.i-iii. Mr.31, 1931. no.1.

Chiovenda, E .

Un antichissimo erbario anonimo del Museo botanico di Firenze III-IV. Ann. di Bot. 19: 122-144. Mr.31, 1931. no.1.

III . Le piante coltivate nel primo Orto botanico di Pisa. IV. L'autore dell'erbario anonimo.

Ann. di Bot. (cont.)

Lusina, G.
Contributo alla teratologia vegetale. Ann. di Bot. 19: 63-75. Mr.31, 1931. no.1.

Lusina, G.
Il Gyrophragmium delilei Mont. e la Montagnites radiosa (Pall.) Hollos nel Lazio. Ann. di Bot. 19: 156-157. Mr.31, 1931. no.1.

Negodi, G.
Richerche sperimentali sull'azione esercitata da estratti della ghiandola tiroide di mammiferi sulle piante superiori. Ann. di Bot. 19: 99-121. pl.iv-v. Mr.31, 1931. no.1.

Ann. Univ. Stellenbosch. (Capetown)

Dippenaar, B. J.
Drie siektes wat in Suid Afrika op lupienplante voorkom. Ann. Univ. Stellenbosch. v.9, B. no.1. 9 p. 3 pl. My.1931.
Sclerotinia sclerotiorum, Botrytis cinerea, Ascochyta sp.

Ann. Rep. Dept. Agr. Mauritius.

Shepherd, E.F.S.
[Report of the] Mycological division. Ann. Rep. Dept. Agr. Mauritius 1929: 8-11. 1931.

Arch. Theecult.

Boedijn, K.B. & Steinmann, A.
Over de roetdauwschimmels van de thee. (On the so-called sooty moulds of tea). Arch. Theecult. 1931: 25-48. 9 pl. on 5. F.1931. no.1.
English summary: p.45-48.

Biochem. Journ. (London)

Barton-Wright, E.C. & Boswell, J. G.
The biochemistry of dry-rot in wood. II. An investigation of the products of decay of spruce wood rotted by Merulius lachrymans. Biochem. Journ. 25: 494-506. 1931. no.2.

Bird, G.M. & Haas, P.
On the nature of the cell wall constituents of Laminaria spp. mannuronic acid. Biochem. Journ. 25: 403-411. 1931. no.2.

Biochem. Journ. (cont.)
Collison, D.L. & Smedley-Maclean, I.
The nature of the lipoid matter extracted from green leaves (spinach and cabbage). Biochem. Journ. 25: 606-613. 1931. no.2.

Biochem. Zeitschr. (Berlin)
Jacobsohn, K. P.
Ueber die biochemische hydratisierung der fumarsaure durch pflanzliche zellen und hefe. Biochem. Zeitschr. 234: 401-418. My.22, 1931. no.5/6.

Blumen u. Pflanzenb. (Berlin)
Schwartz, G.
Die bekämpfung des blattfalles bei azaleen. Blumen u. Pflanzenb. 46: 89-91. illus. Je.1, 1931. no.6.
Septoria azalea.

Bol. Agr. Tech. & Econ. Spain (Madrid)
Aguirre Andrés, J.
Estudio critico de algunos métodos usados para la determinacion del pH. Bol. Agr. Tech. & Econ. 23: 55-71. illus. Mr. 1931. no.267.

Bol. Estac. Exp. Agr. Soc. Nat. Agr. Lima.
Arthur, J. C.
Las royas de los vegetales (Uredinales) del Peru. Bol. Estac. Exp. Agr. Soc. Nat. Agr. Lima no.2. 14 p. O.1929. (rec'd Je. 1931)
"Este ariculo ha sido leido, en dicembre de 1924 ante el Tercer Congreso cientifico Pan Americano reunido en Lima".

Boll. R. Staz. Patol. Veg. Roma (Firenze)
Curzi, M.
Intorno alle infezioni cercosporiche dell' Arachis hypogea L. Boll. R.Staz. Patol. Veg. Roma n.s., 11: 84-97. illus. 1931. no.1.

Curzi, M.
Rapporti fra i generi Microascus Zukale Scopulariopsis Bainier. Boll. R. Staz. Patol. Veg. Roma n.s. 11: 55-60. 1931. no.1.

Boll. R. Staz. Patol. Veg. Roma (cont.)

Petri, L.
Osservazioni sulla variegatura delle foglie del grano. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 98-104. illus. 1931. no.1.

Petri, L.
Rassegna dei casi fitopatologici osservati nel 1930. Boll. R. Staz. Patol. Veg. Roma n.s. 11: 1-50. 1931. no.1.

Petri, L.
Sull' "arricciamento" della vite. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 61-83. illus., pl. i. 1931. no.1.

Sibilia, C.
Ricerche sulla "ginocchiatura" del grano. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 50-54. 1931. no.1.

Bot. Mag. Tokyo.

Honda, M.
Nuntia ad floram Japonicae XI. Bot. Mag. Tokyo 45: 138-139 Mr. 1931. no.531.

Morinaga, T. & Fukushima, E.
Chromosome numbers of cultivated plants III. Bot. Mag. Tokyo 45: 140-145. illus. Mr.1931. no. 531.

Nakai, T.
Notulae ad plantas Japoniae et Korea XL. Bot. Mag. Tokyo 45: 91-137. Mr. 1931. no.531.

Ohwi, J.
Symbolae ad floram Asiae orientalis II. Bot. Mag. Tokyo 45: 183-197. Ap.1931. no.532.

Okunuki, K.
Ueber die beeinflussung des wachstums der schimmelpilze durch die von rosahefen gebildeten stoffe. Bot. Mag. Tokyo 45: 162-165. Mr. 1931. no.531.
In Japanese.

Bot. Mag. Tokyo(cont.)

Shimotomai, N.

Ueber die konjugation der chromosomen bei zwei artbastarden von chrysanthemum. Bot. Mag. Tokyo 45: 198-210. illus. Ap. 1931. no.532.

In Japanese with German summary: p.210.

Botaniste (Paris)

Dangeard, P. A.

Mémoire sur la terminologie des éléments cellulaires et son application a l'étude des champignons. Botaniste 22: 325-469. illus., pl.ix-xviii. My.1931. no.6.

Pythium muscae, Cladosporium versicolor n. spp.

Bryologist (Pittsburg)

Steere, W.C.

Notes on the mosses of southern Michigan. Bryologist 34: 1-5. Ja. 1931. no.1.

Bull. Conserv. Dept. Univ. Nebraska

Weaver, J.E. & Himmel, W.J.

The environment of the prairie. Bull. Conserv. Dept. Univ. Nebraska no.5. 50 p. pl. Mr.10,1931.

Bull. Dept. Agr. Kenya (Nairobi)

Beckley, V. A.

The "yellowing of coffee" Bull. Dept. Agr. Kenya no. 3. 6 p. 1 pl. 1931.

McDonald, J.

Investigations on stem rust of wheat in Kenya Colony. Bull. Dept. Agr. Kenya no.1. 7 p. 1 pl. 1931.

Maher, C.

Ear rots and root rots of maize in Kenya and some suggestions for their control. Bull. Dept. Agr. Kenya no.5. 23 p. 2 pl. on 1. 1931.

Taylor, H. J. & Maher, C.

Root rot, foot rot and head blight of wheat in Kenya. Bull. Dept. Agr. Kenya no. 4. 15 p. 1931.

Bull. Mens. Soc. Nat. Hort. France (Paris)

Emery, H. & Prat, H.

Etude d'une tumeur du chrysanthème cultivé. (Pyrethrum sinense Sab.-Chrysanthemum indicum L.) Bull. Mens. Soc. Nat. Hort. France V,4: 182-193. illus. Ap.1931.

Differs from Bacterium tumefaciens, resembles "balais de sorcière polystypes".

Bull. Sect. Sci. Acad. Roumaine (Bucarest)

Mihailescu, I. Gr.

Recherches sur le rôle physiologique de la nervation des feuilles. Bull. Sect. Sci. Acad. Roumaine 13: 185-189. illus. 1930. no.7.

Moruzi, C.

Remarques sur quelques peltigéracées récoltées en Roumainie dans la region montagneuse des districts de Neamtz et Bucegii. Bull. Sect. Sci. Acad. Roumaine 13: 71-77. illus. 1930. no.3.

Bull. Soc. Bot. France (Paris)

Camus, A.

Espèces nouvelles du genre Agrostis provenant des Comores et de Madagascar. Bull. Soc.Bot. France 78: 34-36. My.8,1931. no.1/2.

A. comorensis, A. tsaratananensis, A. decaryana.

Camus, A.

Graminées nouvelles de Madagascar. Bull. Soc. Bot. France 78: 8-9. My.8, 1931. no.1/2.

Arundinaria ambositrensis, Andropogen vohibory-ensis, Avenastrum humbertii.

Camus, A.

Quelques hybrides des genres Cistus, Bromus et Brachypodium. Bull. Soc. Bot. France 78: 97-102. My.8, 1931. no.1/2.

Camus, A.

Sur quelques orchidées d'Orient. Bull. Soc. Bot. France 78: 66. My.8, 1931. no.1/2.

Serapias cordigera, S. Orientalis nov. subsp., Orchis picta corcyrensis nov.var.

Bull. Soc. Bot. France (cont.)

Chadefaud, M.
Le vacoule et les physodes de deux Desmarestia. Bull. Soc. Bot. France 78: 41-46. illus. My.8, 1931. no.1/2.
D. dudresnayi, D. ligulata.

Dangeard, P.
Sur un genre nouveau de trentepohliaceos récolté en Islande (Rhizothallus, nov.gen.) Bull. Soc. Bot. France 78: 91-95. illus. My.8, 1931. no.1/2.

Douin, R.
A propos d'une syncarpie du Corylus avellana L. Bull. Soc. Bot. France 78: 12-13. illus. My. 8, 1931. no.1/2.

Gagnepain, F.
A propos de mutations: une hypothèse. Bull. Soc. Bot. France 78: 95-97. My.8, 1931. no.1/2.

Gagnepain, F.
Cirrhopetalum nouveaux d'Asie. Bull. Soc. Bot. France 78: 4-8. My.8, 1931. no.1/2.

Gagnepain, F.
Habenaria nouveaux d'Indo-China. Bull. Soc. Bot. France 78: 67-74. My.8, 1931. no.1/2.

Gagnepain, F.
Pleione nouveaux de Chine. Bull. Soc. Bot. France 78: 25-26. My.8, 1931. no.1/2.
P. communis, P. communis subobtusum, P. fargesii, P. ganchuenensis.

Genty, I.
Le Cochlearia austriaca R.Br., en France. Bull. Soc. Bot. France 78: 10-12. My.8, 1931, no.1/2,

Maheu, J.
Lichens d'Aix-en-Provence (1926-1927) (cont.) Bull. Soc. Bot. France 78: 75-89. My.8, 1931. no.1/2.

Bull. Soc. Bot. France. (cont.)

Mugnier, L.
Roses de l'Est (Marne, Aube, Meuse, Haute-Saône). Bull. Soc. Bot. France 78: 102-105. My.8, 1931. no.1/2.

Perrier de la Bathie, H.
Remarques sur les chlaenacees. Bull. Soc. Bot. France 78: 46-65. My.8, 1931. no.1/2.
Xerochlamys luteola, Rhodolaena echinata, n.spp.

Reynier, A.
Lamarck botaniste plus ou moins émule de Linné (Histoire et phytographie). Bull. Soc. Bot. France 78: 36-39. My.8, 1931. no.1/2.

Uphof, J. C. Th.
Quelques contributions à la connaissance de la famille des empétracées (Ceratiola ericoides Michx). Bull. Soc. Bot. France 78: 26-31. illus. My.8, 1931. no.1/2.

Vallette, G.
Reproduction et sexualité chez les Ustilaginées. Bull. Soc. Bot. France 78: 13-23. illus. My.8, 1931. no.1/2.

Bull. Soc. Chim. Biol. (Paris)

Cheymol, J.
Variations dans la composition glucidique de la racine de benoite (Geum urbanum L.) au cours de la végétation d'une année (octobre 1929-septembre 1930). Bull. Soc. Chim. Biol. 13: 470-476. Ap.1931. no.4.

Lutz, L.
Sur les ferments hydrolysants sécrétés par les champignons hyménomycètes. Degradation des elements constituants de la membrane cellulaire. Bull. Soc. Chim. Biol. 13: 436-457. illus. Ap.1931. no.4.

Ricard, P.
Les constituants glucidiques des laminaires: nature, variations saisonnières. Bull. Soc. Chim. Biol. 13: 417-435. diagrs. Ap.1931. no.4.

Bult. Sci. Fak. Terkult. Kjusu Imp. Univ.

Takenouchi, M.

Investigations on the relation between plants and their surrounding conditions by the quantitative method. IV. On the variation of wavyness in the lateral walls of epidermal cells of leaves in sunshine and shade individuals in the same species. Bult. Sci. Fak. Terkult. Kjusu Imp. Univ. 4: 191-217. illus. Ap.1931. no.3.

In Japanese with English summary: p.216-217.

Yukawa, M. & Maki, T.

Schizosaccharomyces japonicus nov.spec. Bult. Sci. Fak. Terkult. Kjusu Imp. Univ. 4: 225-226. 1 pl. Ap.1931. no.3.

In Japanese with English summary: p.225-226.

Chem. & Industr.

Woodman, R.M. & Wiley, W.J.

The eradication of prickly-pear by chemicals with particular reference to emulsions in the systems phenols-gelatin-aqueous arsenic acid. Chem. & Industr. 50: 187-189. My.29, 1931. no.22.

Circ. Coll. Agr. Univ. Alberta.

Henry, A. W.

Stinking smut of wheat in Alberta. Circ. Coll. Agr. Univ. Alberta no.10. 10 p. illus. Ap.1931.

Compt. Rend. Soc. Biol. Paris.

Dufrénoy, J.

Survie de tabacs cultivés en milieu stérile. Compt. Rend. Soc. Biol. Paris 107: 358. illus. Je.3, 1931. no.17.

Lenoir, M.

Phenomènes de pathologie nucléaire dans les cellules du nucelle de Fritillaria imperialis L. Compt. Rend. Soc. Biol. Paris 107: 367-368. Je.3, 1931. no.17.

Raybaud, L.

Difference d'intensité des phénomènes hygroscopiques observés sur les graines de Salvia sclarea suivant leur origine. Compt. Rend. Soc. Biol. Paris 107: 370-371. Je.3, 1931. no.17.

Compt. Rend. Soc. Biol. Paris. (cont.)
Solacolu, T.
Sur les matieres colorantes de quelques myxomycetes. Compt. Rend. Soc. Biol. Paris 107: 409-411. illus. Je.3, 1931. no.17.

Desert (Pasadena)
Alwin Berger. Desert (Pasadena) 3: 18-20. port. Ja.1931.
Biographical accounts and tributes by various persons.

Johansen, D. A.
Ludwigea jussieua. Desert (Pasadena) 3: 21, 23. illus. Je. 1931. no.2

Farming South Africa (Pretoria)
Wager, V. A.
Bacterial wilt of potatoes. Farming South Africa 6: 63-64. illus. My.1931. no.62.
Bacterium solanacearum.

Flor. Exch. (N.Y.)
Griffiths, D.
A score of seedling daffodils. The first report of narcissus breeding experiments as carried on in the Pacific northwest. Flor. Exch. 77(7): 11. illus. Je.13, 1931.

Horticulture pays another high tribute to Liberty Hyde Bailey, its dean. Flor. Exch. 77(7): 9, 28. port. Je.13, 1931.
A man and his workshop by Janet Ewing Robinson; The man and his work by Peter D. Barnhart.

Huff, R.
Gladiolus forms and types. Flor. Exch. 77(6): 33-34. illus. Je.6, 1931. no.6.

Flygbl. Centralanst. Jordbruksfors. Sweden.
Lindfors, T.
Korta anvisningar rorande utsadesbetning. Flygbl. Centralanst. Jordbruksfors. Sweden. no.153. 6 p. illus. Mr.1931.

Fortschr. Landw. (Vienna)
Scheibe, A.
Der rohrzuckergehalt der samen als ein hinweis für den physiologisch-ökologischen charakter der getreidearten und -sorten. Fortschr. Landw. 6: 364-369. Je.1, 1931. no.11.

Fruit Products Journ. (N.Y.)
Moore, E. G.
New chemical from apple pomace. Fruit Products Journ. 10: 305-307. illus. Je.1931.
Investigations show that ursolic acid, produced from apple pomace has commercial possibilities in the paint and varnish industry. Investigations carried on by Dr. Charles E. Sando and Dr. Klare S. Markley.

Gard. Chron. (London)
Anderson, A. W.
Boronias. Gard. Chron. III, 89: 430. Je.6, 1931. no.2319.

Bruno Hahne. Gard. III, 89: 442. port. Je.6, 1931. no.2319 .
Notice of death.

Comber, H. F.
Alströmeria ligtu var. angustifolia. Gard. Chron. III, 89: 435-436. illus. Je.6, 1931. no.2319.

Comber, H. F.
Olearia gunniana var. splendens. Gard. Chron. III, 89: 436. Je.6, 1931. no.2319.

Friend, H.
Horticulture in relation to commerce. IX. The world's most useful grass. Gard. Chron. III, 89: 416-417. My.30, 1931. no.2318.
Bamboo.

Redgrove, H. S.
Some notes on squills; native and economic. Gard. Chron. III, 89: 414-415. My.30, 1931. no.2318.

Salmon, E. S. & Ware, W. M.
A new fact in the life-history of the apple scab fungus. Gard. Chron. III, 89: 437-438. illus. Je.6, 1931. no.2319.

Gard. Chron. (cont.)

Small, J.
Revelations of a pocket-lens (cont.) Gard. Chron. III, 89: 433. illus. Je.6, 1931. no.2319.

Ward, F. K.
The Roosevelt expedition in French Indo-China. XVI. - Vientiane. Gard. Chron. III, 89: 434-435. illus. Je.6, 1931. no.2319.

Gartenw. (Berlin)

Haenchen, F.
Chromosomenverdoppelung und gärtnerische züchtung. II. Gartenw. 35: 297-298. illus. My.29, 1931. no.22.

Genetica (The Hague)

Erith, A. G.
The inheritance of colour, size and form of seeds, and of flower colour in Vicia faba L. Genetica 12: 477-510. illus. 1930. no.4/5.

Haan, H.de.
Contributions to the genetics of Pisum. Genetica 12: 321-439. illus., col. pl. i-ii. 1930. no.4/5.

Hilgardia (Berkeley, Cal.)

Kennedy, P.B. & Crafts, A.S.
The anatomy of Convolbulus arvensis, wild morning-glory or field bindweed. Hilgardia 5: 591-622. illus. Ap.1931. no.18.

Indian For. (Dehra Dun)

Conference on the spike disease of sandal, Bangalore, 1930.
Proceedings of the conference on the spike-disease of sandal held at 11 a.m. on Monday, the 7th July, 1930, at the Indian institute of science, Bangalore. Indian For. 57: 215-233. My.1931. no.5.

Parker, R. N.
The Andaman marblewood. Indian For. 57: 209-211. pl.10. My.1931. no.5.
Diospyros marmorata n.sp.

Indian Journ. Agr. Sci. (Calcutta)

Dastur, R. H. & Baptista, E.
Osmotic and suction pressures of the rice plant (Oryza sativa L.) Indian Journ. Agr. Sci. 1: 166-188. Ap.1931. no.2.

Dutt, N. L. & Krishanswamy, M. K.
A preliminary note on stigma receptivity in certain sugarcane varieties. Indian Journ. Agr. Sci. 1: 286-288. Ap.1931. no.2.

Prasad, H. H.
A note on bacterial leaf spot of Khira (Cucumis sativus). Indian Journ. Agr. Sci. 1: 289-290. pl.xvi (col.) Ap.1931. no.2.
Similar to Bacterium cucurbitae.

Ital. Agr. (Milan)

Labó, A.
Teorie ed esperienze sull' ascesa dei succhi vegetali. Ital. Agr. 68: 331-338. illus. My.1931. no.5.

Verona, O.
Studi sulla temperatura del suolo. Ital. Agr. 68: 325-329. diagrs. My.1931. no.5.

Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) (Leningrad)

Dokhman, G. I.
O nakhodke Cymbaria borysthenica Pall. v Sal'-skom oruge, vblizi Salo-Manychskogo vodorazdela (Ueber die auffindung von Cymbaria borsthenica Pall. im bezirke Sal in der nähe der wasserscheide zwischen der flüssen Sal und Mantysch). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 543-549. illus. (map) 1930 (Rec'd Je.1931) no.5/6.
Russian with German summary.

Dostoinova, E. Ia.
K lishainikovoi flore byvsh. Vologodskoi gub. (Zur flechtenflora des gouv. Vologda) Izv. Glavn. Bot. Sada SSSR(Bull. Jard. Bot. Prin. URSS) 29: 570-581. 1930(Rec'd Je.1931) no.5/6.
Russian.

Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) (cont.)

Kotov, M.

Rastitel'nost Molokanskogo poluostrova i urochishcha Ass v Sivashe (Beiträge zur vegetation der Molokanen halbinsel und der lokalität Ass im Siwaschgebiet). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 638-641. 1930 (Rec'd Je.1931) no.5/6.

Russian with German summary.

L'vov, S. D.

Vliianie pochvennoĭ zasukhi na khimicheskiĭ sostav pomidor, v sviazi s problemoĭ khimicheskoĭ klassifikatsii sortov (Der einfluss von bodentrockenheit auf die chemische zusammensetzung der tomate in zusamenhang derselben dem problem der chemischen klassifikation der selben nach sorten). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 431-456. 1930(Rec'd Je.1931) no.5/6.

Russian with German summary.

Nevekii, S. A.

O nekotorykh predstaviteliakh roda Agropyrum Gaertn.(Ueber einige vertreter der gattung Agropyrum Gaertn.) Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29:536-542. illus.(map) 1930 (Rec'd Je.1931) no.5/6.

Russian with German summary and Latin diagnosis A. fibrosum (Schrenk) m., A. pavlovii, A. praecaespitosum n.spp.

Nikitin, S. A.

K sistematike peschanykh ras roda Tragopogon. (Zur systematik der sand-rassen der gattung Tragopogon). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 484-491. 1930 (Rec'd Jr.1931) no.5/6.

Russian with German summary.

T. floccosum, T. ruthenicum, T. heterospermum.

Nikitin, S. A.

O Dianthus cyri Fisch. et Mey. i ee nakhozhdenii v Turkestane (Ueber Dianthus cyri Fisch. et Mey. und dessen erstes auffinden in Turkestan). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 492-493. 1930(Rec'd Je.1931) no.5/6.

Russian with German summary.

Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) (cont.)

Pigulevskii, G. V.
O lokalizatsii efirnykh masel i smol v khvoe. Opyt opredeleniia absoliutnogo soderzhaniia sekreta v smolianykh kanalakh khvoi (Ueber die lokalisation der aetherischen öle und harze der nadeln) Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 477-483. illus. 1930(Rec'd Je.1931) no.5/6.
Russian with German summary.

Prokhanov, Ia.
Novye vidy iz gerbariia botanicheskogo sada (Species nova e herbario Horti botanici Ac. Sc. Ussr.) Izv. G;avn. Bot. Sada SSSR(Bull. Jard. Bot. Prin. URSSP 29: 550-569. illus. 1930. no.5/6.
Latin new species in Tithymalus & Allium, Chamaesyce anisopetala, n.sp.

Schipczinsky, N. V.
Pastbishcha vdol srednego i verkhnego techaniia r. Karatala (Die weideländer längs dem mittleren und oberen lauf des Karatal flusses). Izv. Glavn. Bot. Sada SSSR(Bull. Jard. Bot. Prin. URSS) 29: 494-535. illus. (incl.map), pl. 1930 (Rec'd Je.1931) no.5/6.
Russian with German summary.

Shiriaev, G. I.
Onobrychis viciaefolia Scop. i.O. arenaria DC. Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 596-602. illus. (map) 1930(Rec'd Je.1931) no.5/6.
Russian with German summary.

Vasil'chenko, I. T.
Materialy k poznaniiu espartsetov (r. Onobrychis) Severo-Kavkazskogo kraia, ravninnogo Dagestana i Bashkirii (Ueber russische esparzetten aus Nordkaukasien neider Daghestan und Baschkirien (Ural). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 603-637. illus. 1930(Rec'd Jr.1931) no.5/6.
Russian with Latin diagnlsis of new species (O. hemata, O. dielsii, O. novorokrovskii, O. brachypus)

Viatkin, V. V.
O zimovanii dvukh vidov kalin Viburnum tinus i Viburnum odoratissimum v 1928/29 g. (Ueber die überwinterung zweiter arten Viburnum V. tinus und V. odoratissimum im jahre 1928-29) Izv. Glavn. Bot. Sada SSSR(Bull. Jard. Bot. Prin. URSS) 29: 457-476. illus. 1930(Rec'd Je.1931) no.5/6.

Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) (cont.)

Vilhelm. J.

Dopolnenie k izucheniiu karovykh vodoroslei SSSR (Ad. characearum Europae orientalis et Asiae cognitionem additamentum). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 582-596. 1930 (Rec'd Je. 1931) no.5/6.

Russian introduction; Latin with French summary. Chara & Nitella.

Wislouch, V. I.

Litorella uniflora (L.) Aschers. v. konchezerskoi sisteme ozer Karelii (Litorella uniflora (L.) Aschers. im kontscheserschen system der seen Kareliens). Izv. Glavn. Bot. Sada SSSR (Bull. Jard. Bot. Prin. URSS) 29: 642-647. illus. 1930(Rec'd Je.1931) no.5/6.

Russian with German summary.

Journ. Amer. Chem. Soc.

Caldwell, M. L. & Tyler, M. G.

A quantitative study of the influence of acetate and of phosphate upon the activity of the amylase of Aspergillus oryzae. Journ. Amer. Chem. Soc. 53: 2316-2320. Je. 1931. no.6.

Journ. Bot. (London)

Ardagh, J.

Paul Hermann's Ceylon herbarium and icones. Journ. Bot. 69: 137-138. My.1931. no.821.

Exell, A. W.

The genera of Combretaceae. (concl.) Journ. Bot. 69: 121-128. My.1931. no.821.

Godfrey, M. J.

The pollination of Coeloglossum, Nigritella, Serapias, etc. Journ. Bot. 69: 129-130. My. 1931. no.821.

John Guille Millais. Journ. Bot. 69: 144. My.1931. no.821.

Notice of death.

Moore, S.

Notes on Jamaica plants.(cont.) Journ. Bot. 69: 131-134. My.1931. no.821.

Journ. Bot. (cont.)
Rendle, A. B.
Spencer Le Marchant Moore (1851-1931)
Journ. Bot. 69: 134-136. port. My.1931. no.821.

Wolley-Dod, A. H.
A revision of the British roses (cont.)
Journ. Bot. v.69, suppl. p.49-56. My.1931. no.821.

Journ. Landw. (Berlin)
Tornau, O. & Meyer, K.
Vergleichende untersuchungen über die leistungsfähigkeit zweier hafersorten bei steigenden stickstoffgaben und verschiedener bodenfeuchtigkeit.
Journ. Landw. 79: 155-189. 1931. no.2.

Journ. Min. Agr. Gt. Brit. (London)
Preston, N. C.
The prevention of finger-and-toe(club root) in gardens and allotments. Journ. Min. Agr. Gt. Brit. 38: 272-284. 1 pl. Je.1931. no.3.

Journ. Roy. Agr. Soc. Engl.(London)
Biffen, R. H.
Annual report for 1930 of the botanist. Journ. Roy. Agr. Soc. Engl. 91: 326-332. 1930 (Rec'd Je. 1931)

Kosmos (Stuttgart)
Litzelmann, E.
Aus der naturgeschicht einiger gartenblumen.
Kosmos 1931: 187-192. illus. Je.1931. no.6.

Lesnická Práce (L'Oeuvre For.)(Pisek, Moravia)
Ille, B.
Příspěvek k řešení otázky mrazových škod na douglasce po zimě 1928/29 (Beitrag zur lösung der frage der frostschäden an der douglas-tanne nach dem winter 1928/1929). Lesnická Práce (L'Oeuvre For.) 10: 167-173. 2 pl. on 1. 1931. no.4.
German summary: p.172-173.

Mem. Dept. Agr. India Bot. Ser.
Ramiah, K., Jobitharaj, S. & Dharmalinga Mudaliar, S.
Inheritance of characters in rice. Pt. IV.
Mem. Dept. Agr. India Bot. Ser. 18: 229-258. illus., 7 pl. on 6 (1 col.) Mr.1931. no.8.

Missouri Bot. Gard. Bull. (St. Louis)

Anderson, E.

Henry Shaw's Alma Mater and Peter Collinson. Missouri Bot. Gard. Bull. 19: 88-94. My.1931. no.5.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Backeberg, C.

Kakteen-seltenheiten. Meine Peru-expedition 1930-1931. Möller's Deut. Gärtn.-Zeit. 46: 186-187. illus. Je.1, 1931. no.16.

New species mentioned but not described.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)

Trappmann, W.

Massnahmen und einrichtungen zur entfernung des spritzbelages von obst. Nachrichtenbl. Deut. Pflanzenschutzd. 11: 42-44. Je.1931. no.6.

Winkelmann, A.

Eine methode zur schnellen bestimmung des beizbelages bei verwendung kupferhaltigen trockenbeizmittel Nachrichtenbl. Deut. Pflanzenschutzd. 11: 44-45. Je.1931. no.6.

Nature (London)

Dr. Rudolf Marloth... Nature 127:826. My.30, 1931.

Notice of death.

Huskins, C. L.

Origin of Spartina townsendii. Nature 127: 781. My,23,1931. no. 3212.

Phillips, J.

Mortality among plants and its bearing on natural selection. Nature 127: 851-852. Je.6, 1931. no. 3214.

Smith, K. M.

Thrips tabaci Lind. as a vector of plant virus disease. Nature 127: 852-853. illus. Je.6, 1931. no.3214.

Naturwissensch. (Berlin)

Goodspeed, T. H.
Die bedeutung von quantitativen chromosomenveränderungen. Naturwissensch. 19: 476-483. Je.5, 1931. no.23/25.

New Phytol. (London)

Arber, A.
Studies in floral morphology. I. On some structural features of the cruciferous flower. New Phytol. 30: 11-41. illus. F.18, 1931. no.1.

Barnes, B.
Teratological studies. I. Receptacular outgrowths in Antirrhinum majus L. New Phytol. 30: 56-65, illus. F.18,1931. no.1.

Berkeley, C. J. A.
Abnormalities in the ovaries of Helianthus decapetalus Linn. var. multiflorus Bailey. New Phytol. 30: 42-55. illus. F.18,1931. no.1.

Curtis, W. M.
Variation in the flowers of Lychnis dioica, Linn. New Phytol. 30: 69-72. illus. F.18,1931. no.1.

Khanna, L. P.
Abnormal flowers of mustard (Brassica alba). New Phytol. 30: 73-75. illus. F.18,1931. no.1.

Latter, J.
Schizocotyly and genetic variation in Acer. New Phytol. 30: 66-68. illus., pl.i. F.18, 1931. no.1.

Meyer, K. H.
The molecular structure of the cell wall. New Phytol. 30: 1-10. illus. F.18, 1931. no.1.

Notizbl. Bot. Gart. Berlin.

Burret, M.
Aulacocarpus Berg = Mouriria Aubl. Notizbl. Bot. Gart. Berlin 11: 150-151. Mr.31,1931. no.102.

Diels, L.
Anonaceae novae. Notizbl. Bot. Gart. Berlin. 11: 73-86. Mr.31,1931 no.102.

Notizbl. Bot. Gart. Berlin (cont.)

Gilg, E.
Ueber eine neue gattung der Ochnaceae (?) Alloiosepalum, aus Peru. Notizbl. Bot. Gart. Berlin 11: 97-99. illus. Mr.31, 1931. no.102.
A. weberbaueri.

Harms, H.
Eine neue gattung der Flacourtiaceae. Notizbl. Bot. Gart. Berlin 11: 146-149. illus. Mr.31, 1931. no.102.
Ancistrothyrsus, A. tessmannii.

Ignatz Urban. Notizbl. Bot. Gart. Berlin v.11, no.102 suppl. leaf. Mr.31, 1931.

Loesener, T.
Ueber die zingiberaceen des herb. Ruiz und Pavon. Notizbl. Bot. Gart. Berlin 11: 87-92. Mr.31,1931. no.102.

Loesener, T.
Was ist Izauierdia Ruiz et Pav. Notizbl. Bot. Gart. Berlin 11:93-96. Mr.31,1931. no.102.
Ilex aggregata.

Mattfeld, J.
Compositae novae sinenses. Notizbl. Bot. Gart. Berlin 11: 103-110. Mr.31,1931. no.102.
Species of Pertya (P. cordifolia n.sp.) Ainsliaea,(A. multibracteata, A. tenuicaulis, A. hui, n.spp.), Gerbera anandria var. densiloba var. nov.

Melchior, H.
Die scrophulariaceen-gattungen Orthocarpus und Castilleja in Südamerika. Notizbl. Bot. Gart. Berlin 11: 111-123. Mr.31, 1931. no. 102.

Milbraed, J.
Plantae tessmannianae peruvianae. VIII. Notizbl. Bot. Gart. Berlin 11: 134-146. Mr.31,1931. no.102.

Pilger, R.
Eine neue art von Boopis aus südbrasilien. Notizbl. Bot. Gart. Berlin 11: 101-102. Mr.31, 1931. no.102.
B.jürgensii.

Notizbl. Bot. Gart. Berlin (cont.)

Schmidt, O. C.
Ein neues Asarum aus Tonkin. Notizbl. Bot. Gart. Berlin 11: 100. Mr.31, 1931. no.102.
A. petelotii.

Ulbrich, E.
Ueber den hexenbesenrost der berberitze, Puccinia arrhenatheri (Kleb.) Erikss. (Aecidium graveolens Shuttl.) Notizbl. Bot. Gart. Berlin 11: 124-128. Mr.31, 1931. no.102.

Ulbrich, E.
Ueber eigenartige alloiophylle riesenformen von Anemone nemorosa L. mit Urocystis-befall. Notizbl. Bot. Gart. Berlin 11:128-134. Mr.31, 1931. no.102.

Ohio Journ. Sci. (Columbus)

Camp, W. H.
The grass balds of the Great Smoky mountains of Tennessee and North Carolina. Ohio Journ. Sci. 31: 157-164. illus. My.1931. no.3.

Lane, G. H.
A preliminary pollen analysis of the East McCulloch peat bed. Ohio Journ. Sci. 31: 165-171. My.1931. no.3.

Onze Ploeg Landb. Tijdschr. (Leuven)

Jennes, J.
Zelfsterliteit bij onze fruitboomen (concl.) Onze Ploeg Landb. Tijdschr. 10: 139-144. My.1931. no.5.

Parfums France (Grasse)

Chiris (Etablissement Antoine Chiris)
Réalisation experimentale de l'hybride entre narcisse a bouquet en narcisse jonquille. Parfums France 9: 132-136. illus. Ap.1931. no.98.

Parks & Recreation (Rockford, Ill.)

Some water relations of turf plants. Parks & Recreations 14: 562-565. Je.1931. no.10.

Phytopath.

Elze, D. L.
The relation between insect and virus as shown in potato leaf roll, and a classification of viroses based on this relation. Phytopath. 21: 675-686. Je.1931. no.6.

Hey, G.L. & Carter, J. E.
The effect of ultra-violet light radiations on the vegetative growth of wheat seedlings and their infection by Erysiphe graminis. Phytopath. 21: 695-699. Je.1931. no.6.

Honing, J. A.
Nucleus and plasma in the heredity of the need of light for germination in Nicotiana seeds. Genetica 12: 441-468. fold.tab. 1930. no.4/5.

Holton, C. S.
The relation of physiologic specialization in Tilletia to recent epiphytotics of bunt in Durum and Marquis wheats. Phytopath. 21: 687-694. Je.1931. no.6.

Immer, F. R. & Christensen, J.J.
Further studies on reaction of corn to smut and effect of smut on yield. Phytopath. 21: 661-674. Je.1931. no.6.

McIndoe, K. G.
The inheritance of the reaction of maize to Gibberella saubinetii. Phytopath. 21: 615-639. illus. Je.1931. no.6.

MacMillan, H. G.
Turgescence and rupture of potato tuber. Phytopath. 21: 701-703. Je.1931. no.6.

Quanjer, H. M.
The methods of classification of plant viruses and an attempt to classify and name potato viroses. Phytopath. 21: 577-613. illus. Je.1931. no.6.

Tisdale, W.B. & Wadkins, R. F.
Brown spot of tobacco caused by Alternaria longipes (E.& E.) n.comb. Phytopath. 21: 641-660. illus. Je.1931. no.6.

Plant Physiology

Beck, W. A.
Variations in the Og of plant tissues. Plant Physiology 6: 315-323. illus. Ap. 1931. no.2.

Butler, M. R.
Comparison of the chemical composition of some marine algae. Plant Physiology 6: 295-305. Ap.1931. no.2.

Eisenmenger, W. S.
Factors modifying the toxicity of phenol. Plant Physiology 6: 325-332. illus. Ap.1931. no.2.

Johnston, E. S., Brackett, F. S. & Hoover, W. H.
Relation of phototropism to the wave-length of light Plant Physiology 6: 307-313. illus. Ap.1931. no.2.

Kertesz, Z. I.
Discharge of saccharase from mycelium of Penicillium glaucum. Plant Physiology 6: 249-264. illus., pl. viii. Ap.1931. no.2.

Loesecke, H. van.
Changes in osmotic pressure of bananas during ripening. Plant Physiology 6: 361-365. illus. Ap. 1931. no.2.

Loomis, W. E.
A quantitative demonstration of osmotic equilibrium. Plant Physiology 6: 365-367. illus. Ap.1931. no.2.

Mulay, A. S.
Statistical study of the total nitrogen in Bartlett pear shoots. Plant Physiology 6: 333-338. diagrs. Ap.1931. no.2.

Neller, J. R.
Is electrodialysis useful in a study of apple tissue. Plant Physiology 6: 355-359. illus. Ap.1931. no.2.

Plant Physiology (cont.)

Neller, J. R.
Relation of catalase activity to physiological breakdown in Jonathan apples. Plant Physiology 6: 347-354. illus. Ap.1931. no.2.

Shear, G.M.
Studies on inanition in Arachis and Phaseolus. Plant Physiology 6: 277-294. illus. Ap.1931. no.2.

Smith, L.L.W. & Smith, O.
Light and the carotinoid content of certain fruits and vegetables. Plant Physiology 6: 265-275. Ap.1931. no.2.

Sommer, A. L.
Copper as an essential for plant growth. Plant Physiology 6: 339-345. illus. Ap.1931. no.2.

Tang, P.
An experimental study of the germination of wheat seed under water, as related to temperature and aeration. Plant Physiology 6: 203-248. illus. Ap.1931. no.2.

Planta Arch. Wiss. Bot. (Berlin)

Behrens, A.
Zytologische untersuchungen an Rhipidium europaeum (Cornu) v. Minden. Planta Arch. Wiss. Bot. 13: 745-777. illus. My.16,1931. no.4.

Cholodny, N.
Verwundung, wachstum und tropismen. Planta Arch. Wiss. Bot. 13: 665-694. illus. My.16, 1931. no.4.

Fibras, F.
Ueber die waldgeschichte der Süd-Sevennen und über die bedeutung der einwanderungszeit für die nacheiszeitliche waldentwicklung der Auvergne. Planta Arch. Wiss. Bot. 13: 643-664. illus. My.16, 1931. no.4.

Kostytschew, S.
Die neue vorstellung von der photosynthese. Planta Arch. Wiss. Bot. 13: 778-782. My.16,1931. no.4.

Planta Arch. Wiss. Bot. (cont.)

Lehmann, O.
Die quantitative erfassung kleinster mengen biologisch wichtiger zuckerarten unter ausschluss reduzierender nicht kohlehydratartiger körper. Planta Arch. Wiss. Bot. 13: 575-642. illus. My.16, 1931. no.4.

Matsubara, M.
Versuche über die entwicklungserregung der winterknospen von Hydrocharis morsus ranae L. Planta Arch. Wiss. Bot. 13: 695-715. illus. My.16, 1931. no.4.

Scharfnagel, W.
Biologische untersuchungen zur chlorophyll-bildung. Planta Arch. Wiss. Bot. 13: 716-744. illus. My.16,1931. no.4.

Prakt. Ratg. Obst.- u. Gartenb. (Frankfurt, a.d. O.)

Ludwigs, K.
Die krankheiten an gurke, tomate und salat. Prakt. Ratg. Obst.-u. Gartenb. 46: 273-274. col.pl. Je.7, 1931. no.23.

Proc. Akad. Wetensch. Amsterdam.

Oort, A.J.P.
The spiral-growth of Phycomyces. Proc. Akad. Wetensch. Amsterdam 34: 564-575. illus., pl.i. 1931. no.4.

Proc. Roy. Soc. Ser. B. (London)

Briggs, G.E. & Petrie, A.H.K.
Respiration as a factor in the ionic equilibria between plant tissues and external solutions. Proc. Roy. Soc. Ser.B. 108: 317-326. Je.1, 1931. no.757.

Quart. Rev. Biol. (Baltimore)

Hollaender, A.
Mitogenetic rays. Quart. Rev. Biol. 6: 215-222. illus. Je. 1931. no.2.

Rev. Agr. Com. y Trab. Cuba (Habana)

Agete, F.
Nueves variedades du aguacates en la estacion esperimental agronomica. Rev. Agr. Com. y Trab. Cuba 11, i.e. 12(11): 14-17. illus. My.1931.

Rev. Agr. Puerto Rico. (San Juan)
Bunker, F.H.
Informe del perito en tabaco. Rev. Agr. Puerto Rico 26: 177-186. illus. My.1931. no. 11.

Rev. Gén. Bot. (Paris)
Cassaigne, Y.
Origine et évolution du Vacuome chez quelques champignons. Rev. Gén. Bot. 43: 140-167. pl.8-15. Ap.1931. no.508.

Mollàard, M.
Observations sur les miellées produites par des pucerons. Rev. Gén. Bot. 43:127-139. Ap. 1931. no.508.

Rev. Soc. Colombiana Cienc. Nat. (Bogota)
Maria, H. A.
Contribución a la flora adventicia de Bogotá. Rev. Soc. Colombiana Cienc. Nat. 20: 53-57. Ap./My. 1931. no.110.

Toro, R. A.
Contribucion a la flora de Antioquia. Rev. Soc. Colombiana Cienc. Nat. 20: 57-64. Ap./My. 1931. no.110.

Schweiz. Zeitschr. Obst- u. Weinb. (Wädenswil)
Osterwalder, A.
Föhnschäden an blättern. Schweiz. Zeitschr. Obst- u. Weinb. 40: 241-244. illus. Je.6, 1931. no.12.

Science (Lancaster, Pa.)
De Long, W.A. & Pickett, A.D.
On a possible effect of fungicides upon the composition of apples. Science 73: 649-650. Je.12, 1931. no. 1902.

Erwin, A. T.
Louis Hermann Pammel. Science 73: 604-605. Je.5, 1931. no.1901.

Koch, K.
The potato rugose mosaic complex. Science 73: 615. Je.5, 1931. no.1901.

Science. (cont.)

McKinney, H.H.
Differentiation of viruses causing green and yellow mosaics of wheat. Science 73: 650-651. Je.12, 1931. no.1902.

Seifriz, W.
The structure of protoplasm. Science 73: 648-649. Je.12, 1931. no.1902.

Scient. Agr. (Ottawa)

Keegan, R.
A method of describing wheat glumes. Scient. Agr. 11: 702-703. illus. Je.1931. no.10.

Patterson, C.F. & Bunce, A. C.
Rapid methods of determining the percentages of fertility and sterility in seeds of the genus Betula. Scient. Agr. 11: 704-708. illus. Je. 1931. no.10.

Stadler, L.J.
The experimental modification of heredity in crop plants. II. Induced mutation. Scient. Agr. 11: 645-661. illus. Je. 1931. no.10.

Soil Sci. (Baltimore)

Salter, F. J.
The carbon-nitrogen ratio in relation to the accumulation of organic matter in soils. Soil Sci. 31: 413-430. Je.1931. no.6.

So. African Gard. (Johannesburg)

Blatt, R. J.
The growing of palms. (cont.) So. African Gard. 21: 124-126. illus. My.1931. no.5.

Bolus, L.
French hoek heath or Ventricosa (Erica ventricosa, Thunb.) So.African Gard. 21: 122. col. illus. My.1931. no.5.

Luckhoff, J.
Cross-breeding in nature. So. African Gard. 21: 134-135. illus. My. 1931. no.5.

Marloth, R.
Euphorbias III. So. African Gard. 21: 127, 133. illus. My.1931. no.5.
Dactylanthes.

South. Flor. (Fort Worth, Tex.)

Garner, W.W.
Plant-growth possibilities under artificial light. South. Flor. 31(11): 11-12. Je. 12, 1931.

Succulenta. (Leeuwarden)

Bijzondere bloeiwijze bij Echinocactus leninghausii. Succulenta 13: 109-111. illus. Je. 1931. no.6.

Houten, J.M. van den
Aloë's. VI. Succulenta 13: 122-125. illus. Je.1931. no.6.

Ringh, Chr. de.
Caralluma europaea. Guss. Succulenta 13: 111-112. illus. Je.1931. no.6.

Tijdschr. Plantenz. (Amsterdam)

Buisman, C.
Overzicht van de soorten van iepen, in verband met het iepenziektenonderzoek. Tijdschr. Plantenz. 37: 111-115. 1931. no.5.

Koeslag, J. D.
Een onderzoek over de resistentie van verschillende roggerassen tegen het stengelaaltje. Tijdschr. Plantenz. 37: 96-104. illus. 1931. no.5.

Westerdijk. J., Ledeboer, M. & Went, Joha.
Mededeelingen omtrentgevoeligheidsproeven van iepen voor Graphium ulmi Schwarz, gedurende 1929 en 1930. Tijdschr. Plantenz. 37: 105-110. 1931. no.5.

Trop. Woods, Yale Univ. Sch. For. (New Haven, Conn.)

Pittier, H.
Note on Escallonia tortuosa, H.B.K. Trop. Woods, Yale Univ. Sch. For. 26: 11-12. Je.1,1931.

Record, S.J.
West African avodiré (Turraenthus africana) Trop. Woods, Yale Univ. Sch. For. 26: 1-9. Je.1, 1931.

Trop. Woods, Yale Univ. Sch. For. (cont.)

Record, S. J.

The wood of Escallonia tortuosa. Trop. Woods, Yale Univ. Sch. For. 26: 12-13. Je.1, 1931.

Standley, P. C.

Talisia floresii, a new fruit tree from Yucatan. Trop. Woods, Yale Univ. Sch. For. 26: 14-15. Je.1, 1931.

U.S. Dept. Agr. Circ.

Stevens, N. E.

Field observations on strawberry dwarf. U.S. Dept. Agr.Circ. 174. 8 p. illus. Je.1931.

Univ. Missouri Stud.

Rickett, H. W.

Flora of Columbia, Missouri. Univ. Missouri Stud. v.6, no.1. 84 p. fold.map. Ja. 1, 1931. no. 1.

Zeitschr. Indukt. Abstamm. u. Vererbungsl. (Leipzig)

Imai, Y.

Creased flowers of Pharbitis nil. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 58: 248-258. illus. 1931. no.2.

Zeitschr. Pflanzenkr. (Stuttgart)

Niethammer, A.

Ueber den einfluss einzelner beizmittel auf die bodenmikroflora. Zeitschr. Pflanzenkr. 41: 259-266. Je.1931. no.6.

Schwarz, H.

Die wichtigeren feinde der douglasie in Nordamerika. Zeitschr. Pflanzenkr. 41: 266-268. Je. 1931. no.6.

Exper. Stat. Publ.

Waugh, F. A.

Experiments with hedges. Massachusetts Agr. Exp. Stat. Bull. no. 272. 23 p. illus. Mr. 1931.

Goss, R. W.

Infection experiments with spindle tuber and unmottled curly dwarf of the potato. Nebraska Agr. Exp. Sta. Res. Bull. no.53. 36 p. F.1931.

Exper. Stat. Publ. (cont.)

Kiesselbach, T.A. & Anderson, A.
Breeding winter wheat for resistance to stinking smut (Tilletia levis and Tilletia tritici) Nebraska Agr. Exp. Stat. Res. Bull. 51. 22 p. illus. D.1930(Rec'd My.1931)

Denniston, L.T. & Hodgkiss, H.E.
Profitable potato spraying. Pennsylvania Agr. Exp. Sta. Circ. no.137. 18 p. illus. My.1931.

Kirby, R. S.
Seed treatment for the control of oat smut. Pennsylvania Agr. Exp. Stat. Circ. 136. [3] p. illus. Mr. 1931.

State Publications

Davis, J. J.
Insect and disease problems of the peach grower. Purdue Univ. Dept. Agr. Ext. Bull. 176. 24 p. illus. My.1931.

New Books

Arènes, J.
Les associations végétales de la Basse-Provance. 1930?

Clements, F.E. & Shear, C.L.
The genera of fungi. 2d ed. New York, H.W. Wilson Co., 1931.

Franke, J.
"Hortus lusatiae" Bautzen, 1594. Mit einer biographie neu hrsg., gedeutet und erklärt von Rudolph Zaunick, Kurt Wein und Max Militzer. Bautzen, Naturwissenschaftliche gesellschaft Isi, 1930.

Kränzlin, G. & Marcus, A.
Baumwolle. Berlin-Charlottenburg & Leipzig, 1931(Wohltmann-bücher bd.9)
Schädlinge und krankheiten: p.126-163.

Miller, E. C.
Plant physiology with reference to the green plant. McGraw-Hill, New York, 1931.

New Books, (cont.)

Rhine province. Landwirtschaftskammer für die Rheinprovinz.
Die rheinische landwirtschaft. 1930.
Pflanzenschutz im Rheinland by Dr. Kessler: p.108-113.

Rohde, E. S.
The scented garden. London, The Medici Society, [1931?]

Rossi, B. V.
Modern roses in Australia... Melbourne, Mitchell & Casey, 1930.

Sartory, A. & Couturier, G.
Encyclopédie agricole Quillet. 3 v. Paris, Librairie A. Quillet, 1931.

Schaal, G.
Stein-, beeren- und schalenobst. Stuttgart, Eckstein & Stähle, [1930?]

Tobler, F.
Sisal und andere agavefasern. Berlin-Charlottenburg & Leipsiz, 1931 (Wohltmann-bücher, bd.10).

Verona, O.
Patologia del frumento... Pisa, Vallerini, 1931.

Wiorogórski, Władysław & Zajaczkowski, W.
Lexicon synonimorum pharmaceuticorum. 2 v. Warsaw, Sociéte pharmaceutique de Varsovie, [1930?]

Non-current indexing.

Acta Biol. Exp. (Varsovie)

Jaburek, L.
Badania nad stosunkami czasowemi mitoz w tkance rosnacej. (Ueber die zeitlichen verhältnisse der mitosen im wachsenden gewebe). Acta Biol. Exp. 3: 175-193. illus. 1929.
In Polish with German summary: p.175-176.

Krasińska, Z.
Pryczynek do energetyki kiełkowania słonecznika. (Contribution à l'étude du métabolisme énergétique de la germination (Helianthus annuus). Acta Biol. Exp. 3: 101-141. 1929.

Non-current indexing. (cont.)

Acta Biol. Exp. (cont.)

Rogoziński, F. & Starzewska, M.
Skład błon komórkowych owaa w różnych stadjach rozwoju. (Composition des parois cellulaires de l'avoine dans les différents stades de son développement). Acta Biol. Exp. 3:49-55. illus. 1929.
In Polish with French summary: p.49.

Bol. Agr. São Paulo.

Averna Sacca, R.
Os entomophagos cryptogamicos na broca do caffeeiro (Stephanoderes hampei Ferr.) encontrados em S.Paulo. Bol. Agr. São Paulo 31:10-24, 195-213. illus. 1930. no.1/2, 3/4.

Bol. R. Soc. Españ. Hist. Nat. (Madrid)

Crespi L. & Iglesias, L.
Los prados de las regiones media y montana de Galicia. Bol. R. Soc. Españ. Hist. Nat. 29: 127-142. illus. Mr.31, 1929. no.3.

García Subero, E.
La variación de la acidez actual del jugo-extracto del maiz como efecto de los abonos nitrogenados. Relaciones con la producción. Bol. R. Soc. Españ. Hist. Nat. 29: 25-31. diagrs. Ja.29, 1929. no.1.

González Guerrero, P.
De la ficoflora hispano-marroqui (agua dulce). Bol. R. Soc. Españ. Hist. Nat. 29: 361-364. D.12, 1929. no.9.

González Vázquez, E.
Un chopo español del subgénero Turanga (Populus illicitana Dode). Bol. R. Soc. Españ. Hist. Nat. 29: 45-46. Ja.29,1929. no.1.

Guinea, E.
Neuvos datos para la flora macromicetológica del Guadarrama. Bol. R. Soc. Españ. Hist. Nat. 29: 413-418. D.31, 1929. no.10.

Non-current indexing. (cont.)

Bol. R. Soc. Espan̂. Hist. Nat. (cont.)

Losa, M.
Algunos comentarios a las listas de plantas que D. Javier de Arizaga recogió en el término de Pipaón (Alava) Bol. R. Soc. Espan̂. Hist. Nat. 29: 37-44. Ja.29, 1929. no.1.

Martínez Martínez, M.
Vicia cavanillesii Mz. Mart.sp.nov. (V. vestita Boiss. var. tuberculata Willk.) Bol. R. Soc. Espan̂. Hist. Nat. 29: 409-412 illus. D.31, 1929. no.10.

Miranda, F.
El desarrollo del cistocarpio en una ceramiácea (Ceramium flabelligerum J.Ag.) Bol. R. Soc. Espan̂. Hist. Nat. 29: 47-52. illus. Ja.29,1929. no.1.

Unamuno, L. M.
Hongos microscópicos de los alrededores de La Vid (Burgos). Bol. R. Soc. Espan̂. Hist. Nat. 29: 387-402. illus. D.31, 1929. no.10.

Unamuno, L. M.
Nuevos datos para el estudio de los hongos parásitos y saprofitos de los alrededores de Durango (Vizcaya) Bol. R. Soc. Espan̂. Hist. Nat. 29: 113-125. illus. Mr.31, 1929. no.3.
Sphaerella cricae ciliaris, Phyllosticta pteridina, P. trifolii-minoris, Septoria eusebiana, Monochaetia rosae-caninae, n.spp.

Bull. Entom. Res.

Kirkpatrick, T. W.
Preliminary note on leaf-crinkle of cotton in the Gezira area, Sudan. Bull. Entom. Res. 21: 127-137. Jl.1930. no.2.

Bull. Orto Bot. Univ. Napoli.

Arena, M.
Dell'azione ormonica di elementi di terre rare sulla neoformazione di radici. Bull. Orto Bot. Univ. Napoli 9: 1-16. pl.i (fold.) 1928. no.1.

Non-current indexing. (cont.)

Bull. Orto Bot. Univ. Napoli (cont.)

Cavara, F.
Piante nuove o rare della Libia. IV.
Bull. Orto Bot. Univ. Napoli 9: 41-54.
1928. no.1.

Fiore, M. R.
Sul pelorismo della Digitalis purpurea L.
Bull. Orto Bot. Univ. Napoli 9:69-92. pl.iv.
1928. no.1.

Giuliani, A.
Contributo alla embriogenia del "Cinnamonum camphora (L.) Eber. et Nees. Bull. Orto Bot. Univ. Napoli 9: 33-39. pl.ii-iii. 1928. no.1.

Parisi, R.
Micromiceti di Libia raccolti dal Prof. Cavara.
Bull. Orto Bot. Univ. Napoli 9: 55-67. 1928. no.1.

Sambo, M. C.
Di un lichene di Marmarica. Bull. Orto Bot. Univ. Napoli 9: 17-23. 1928. no.1.
Ramalina maciformis v. mamarica.

Bull. Soc. Fribourg. Sci. Nat.

Jacquet, F.
Sur les origines de la flore fribourgeoise; taches xérothermiques, florules régionales. Bull. Soc. Fribourg Sci. Nat. 29: 56-69. 1929.

Bull. Univ. Saskatchewan Coll. Agr.

Kirk, L. E.
Alpha sweet clover. Bull. Univ. Sasketchewan Coll. Agr. no.45. 24 p. illus. D.1929.

Comment. Biol. Soc. Sci. Fenn. (Helsingfors)

Björkstén, J.
Eine neue kulturmethode für höhere pflanzen.
Comment. Biol. Soc. Sci. Fenn. v.3, no.7. 6 p. illus. O.1929.

Non-current indexing. (cont.)

Deut. Landw. Presse (Berlin)

Pape, H.

Getreidehalmwespe (Cephus pygmaeus L.) und fusskrankheit ("halmtöter") des weizens. Deut. Landw. Presse 57: 493. col.pl. S.6, 1930. no.36.

Doc. Mat. Inter-Amer. Conf. Agr. For. & Animal Ind. 1930.

Harter, L. L.

Some important vegetable diseases of the Western hemisphere. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 271-277. 1930.

Haskel, R. J.

Relation of survey work to a plant disease research and control program. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2:29-43. 1930.

Humphrey, H. B.

Diseases of cereal crops in Pan America. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 237-242. 1930.

Johnson, J.

The present status of the control methods for tobacco diseases. Doc. Mat. Inter.-Amer. Conf. Agr., For., & Animal Ind. 2:257-264. 1930.

Johnston, J. R.

Some important diseases of tropical crops. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2:265-270. 1930.

Kearney, T. H.

Principles of plant breeding as applied to cotton. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 29-43. 1930.

Meinecke, E. P.

Forest tree diseases and their control. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 109-116. 1930.

Non-current indexing. (cont.)

Doc. Mat. Inter-Amer. Conf. Agr., For. & Animal Ind. 1930 (cont.)

Neal, D. C.
Cotton diseases and their control. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 251-255. 1930.

Richey, F. D.
Maize breeding. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 231-235. 1930.

Ryerson, K. A.
Foreign plant introduction and its contribution to the agriculture of the United States. Doc. Mat Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 155-163. 1930.

Talbot, M. W.
The control of weeds in the United States. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 167-170. 1930.

Vinall, H. N.
Grasses and legumes for warm climates. Doc. Mat. Inter-Amer. Conf. Agr., For. & Animal Ind. 2: 171-185. 1930.

Waite, M. B.
Methods of plant disease control. Doc. Mat. Inter.-Amer. Conf. Agr., For. & Animal Ind. 2: 187-194. 1930.

Idaho For.

Hubert, E. E.
The forest disease situation in the Pacific northwest. Idaho For. 12: 12-13, 62-63. 1930.

Izv. Opytn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus) (Rostov-i-Don)

Nichiporovich, A. A. & Bakulina, N. I.
O faktorakh produktivnosti sel.-khoz. rastenii. Assimiliatsionnyi protsess rastenii, kak pokazatel reaktsii ikh na usloviia vneshnei sredy (The process of assimilation as an index of the reaction of plants against the conditions of the outer medium) Izv. Opytn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus) 22: 35-62. 1930.
Russian with English summary.

Non-current indexing. (cont.)

Izv. Opytn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus) (cont.)

Nichiporovich, A. A. & Bakulina, N. I.
Uproshchennyi metod otnositel'nogo ucheta assimiliatsii CO_2 rasteniiami v polevykh ysloviiakh (A simplified method for the determination of the assimilation of carbonic acid by plants in field conditions). Izv. Optyn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus) 22: 21-34. illus. 1930.
Russian with English summary.

Pushkareva, K.
K kharakteristike semian raznykh biologicheskikh form zarazikhi (Orobanch cumana) (On the characteristics of the seeds of different biological races of broom rape (Orobanche). Izv. Opytn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus 19: 155-166. illus., table. 1930.
Russian with English summary.

Talalaev, E. V.
K poznaniiu vnutrennikh uslovii rastenii, opredeliaiushchikh dlinu vegetatsion. perioda (To the knowledge of the inner conditions, prevailing in plants and determining the length of the vegetative period). Izv. Opytn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus) 22: 189-210. illus. 1930.
Russian with English summary.

Timoshenko, M. G.
Pochva, kak antagonist toksicheskomy deistviiu solei na prorastanie semian (The soil as an antagonist of the toxic effect of salts). Izv. Optyn. Delu Severn. Kavkaza (Journ. Agr. Res. North Caucasus) 22: 97-108. 1930.
Russian with English summary.

Tropova, A. T.
Puccinia jaczewskii nov.sp. Tropova. Izv. Opytn. Delu Severn Kavkaza (Journ. Agr. Res. North Caucasus 22: 211-212. illus. 1930.
Russian with Latin diagnosis.
On Carthamus tinctoriae.

Non-current indexing. (cont.)

Kartoffel, Zeitschr. Kartoffelbauges.(Berlin)
Köhler, E.
Stellungnahme zum problem des kartoffelabbaus.
Kartoffel, Zeitschr. Kartoffelbauges. 10: 159-160. Ag.1, 1930. no.15.

Maataloustiet. Aikak. [Agric. Mag.] (Helsingfors)
Teräsvuori, K.
Rautatiet rikkaruohojen levittäjinä. (Die eisenbahnen als verbreiter von unkräutern).
Maataloustiet. Aikak. [Agric. Mag.] 2: 125-133. 1930. no.4.
German summary: p.132-133.

Ochrana Rostlin (Prague)
Blattný, C.
Pokus s pasáží viru bramborů. Ochrana Rostlin 10: 65-70. illus. 1930. no.3.
English abstract in Rev. Appl. Mycol. 10: 124.

Cejp, K.
Fusarium alletscherianum P.Henn., parasit některých skleníkových rostlin. Ochrana Rostlin 10: 75-77. illus. 1930. no.3.
English abstract in Rev. Appl. Mycol. 10: 100.

Oesterr. Zeitschr. Kartoffelb. (Wien)
Köck, G.
Massenauslese als mittel gegen den abbau.
Oester. Zeitschr. Kartoffelb. 1930: 45-47. S. 1930. no.3.

Pflanzenbau (Berlin)
Berthold, Th.
Zur wirkung des entgipfelns und geizens auf die entwicklung der tabakpflanze. Pflanzenbau 7: 170-173. illus. D.1930. no.6.

Figurovsky, J. V.
Analyse der gesamten lufttemperatur (wärmesumme), die von den pflanzen innerhalb einer vegetationsperiode benötigt wird. Pflanzenbau 7: 36-43. Ag.1930. no.2.

Haarring, F.
Beizmittelprüfung an haferflugbrand im laboratorium mit der "Leipziger methode". Pflanzenbau 7: 89-92. illus. S.1930. no.3.

Non-current indexing. (cont.)

Pflanzenbau (cont.)

Gossner, M.
Einiges über die methoden der botanischen bestandesaufnahme von wiesen und weiden. Pflanzenbau 6: 189-197. Ja.1930. no.7.

Hauptfleisch, K.
Versuche vor bekämpfung des kartoffelschorfes durch sortenwahl. Pflanzenbau 6: 255-257. Mr. 1930. no.9.

Huber, J. A.
Wachstumsrhythmus bei winterweizen. Pflanzenbau 7: 68-72. S.1930. no.3.

Kaufer, A.
Zur morphologie und systematik der hafersorten. Pflanzenbau 6:242-245. F.1930. no.8.

Klein, M.
Morphologische untersuchungen an jungem winter getreide unter besonderer berücksichtigung von jugendtypus, art der bestockung und winterleistung. Pflanzenbau 7: 20-27, 47-49. illus. Jl., Ag. 1930. no.1,2.

Kreutz, H.
Beitrag zum problem der winterfestigkeit der pferdebohne (Vicia faba). Pflanzenbau 6: 375-377. illus. Je.1930. no.12.

Meyer, K.
Was kann die keimprüfung in zuckerlösungen (saugkraftmessung im keimlingsstadium) fur die untersuchung kulturpflanzenphysiologischer probleme leisten? Pflanzenbau 6: 112-115. O.1929. no.4.

Meyer, K.
Der xerophytismus unserer landwirtschaftlichen kulturpflanzen im lichte neuerer untersuchungen. Pflanzenbau 7: 173-176. D.1930. no.6.

Noeldechen,
Beizversuche. Welches beizverfahren soll angewandt werden? Pflanzenbau 6: 267-271. Mr.1930. no.9.

Non-current indexing. (cont.)

Pflanzenbau (cont.)

Oberstein, O.
Kartoffelbilder aus alter zeit. Pflanzenbau 7: 120-122. illus. O.1930. no.4.

Opitz, K.
Beobachtungen und versuchsergebnisse über den abbau der kartoffel in Dahlem. Pflanzenbau 7: 129-138. N.1930. no.5.

Schander, R., Mestel, A. & Mallach, J.
Untersuchungsmethoden zur feststellung des pflanzgutwertes und der abbauneigung bei kartoffeln. Pflanzenbau 6: 285-303. Ap.1930. no.10.

Schindler, F.
Beiträge zur ökologie des ackersenfs (Sinapis arvensis L.) Pflanzenbau 7: 77-83. S.1930. no.3.

Schlumberger, O.
Beobachtungen und erfährungen über den gesundheitszustand der kartoffeln im jahre 1930. Pflanzenbau 7: 118-119. O.1930. no.4.

Semsroth, H.
Die ahnentafeln der schorfwiderstandsfähigen kartoffelsorten. Ein versuch ihrer auswertung für die züchtung schorffester sorten. Pflanzenbau 6: 129-131. N.1929. no.5.

Shywan, W. P.
Ueber den aciditäẗsgrad des zellsaftes verschiedener kulturpflanzen. Pflanzenbau 6: 170-174. D.1929. no.6.

Staar, G.
Beiträge zur "indirekten diagnose" von hagelfällen. Pflanzenbau. 6: 317-328. illus. My. 1930. no.11.

Stählin, A.
Morphologische und zytologische untersuchungen an gramineen. Pflanzenbau 6: 119-122. O. 1929. no.4.

Non-current indexing. (cont.)

Pflanzenbau (cont.)

Waldron, L. R.
Vererbung der blütenfarbe bei hybriden von Medicago sativa und Medicago falcata. Pflanzenbau 6: 157-166. D.1929. no.6.

Zade, A.
Beiträge zur oekologie der ackersenfs (Sinapis arvensis L.) Pflanzenbau 7: 158-159. N. 1930. no.5.

Riv. Ital. Essen. e Profumi (Milano)

Ajon, G.
Aspetti chimici del malsecco. Riv. Ital. Essen. e Profumi 12: 226-236, 253-262. O.15, N.15, 1930.

Mattei, G. E.
L'enigma del silfio di Cirenaica. Riv. Ital. Essen. e Profumi 12: 52-53. illus. Mr. 15, 1930. no.3.

Rovesti, P.
Sulle essenze estratte dall'Inula viscosa Ait. Riv. Ital. Essen. e Profumi 12: 202-206. illus. S.15, 1930. no.9.

Rovesti, P.
Vergilio e le piante aromatiche. Riv. Ital. Essen. e Profumi 12: 271-276. illus. D.15, 1930. no.12.

Trudy Anapsk. Opytn. Stan. (Trav. Scient. Stat. Vitic. & Oenol. Anapa)

Merzhanian, A. S. & Vorokhobin, I. G.
O Soderzhanii vitamina C v vinogradnoĭ iagode i vine (La teneur en vitamine C dans les raisins et dans les vins). Trudy Anapsk. Opytn. Stan. (Trav. Scient. Stat. Vitic. & Oenol. Anapa) 5: 45-53. 1929.
Russian with French summary.

Verh. u. Mitt. Siebenbürg. Ver. Naturw. Hermannstadt.

Nyárády, E. J.
Ein neuer ankömmling in der flora der Karpathen. Verh. u. Mitt. Siebenbürg. Ver. Naturw. Hermannstadt. 78: 141-143. illus. 1928. no.1.
Cirsium candelabrum.

Non-current indexing. (cont.)

Verh. u. Mitt. Siebenbürg. Ver. Naturw. Hermannstadt. (cont.)
Nyárády, E. J.
Ueber zwei neue und seltene gräser Rumaniens. Verh. u. Mitt. Siebenbürg. Ver. Naturw. Hermannstadt. 78: 144-153. 3 pl. (2 fold.) 1928. no.1.
Poa laxa ssp. pruinosa ssp. n., Puccinellia convoluta var. pseudobulbosa var. nova.

Ungar, K.
Die serodiagnostik im pflanzenreich und der Königsberger stammbaum. Verh. u. Mitt. Siebenbürg Ver. Naturw. Hermannstadt. 78: 60-63. 1928. no.2.

Zeitschr. Forst- u. Jagdw. (Berlin)
Liese, J.
Beobachtungen über stamm- und stockfäulen unserer waldbäume. Zeitschr. Forst- u. Jagdw. 62: 579-591. illus. Jl./Ag. 1930. no.7/8.
Polyporus schweinitzii, Sparassis crispa, Merulius silvester on pine; Stereum rugosum on oak.

New books.
Heinrich, K.
Ueber die entspannung des markes im gewebeverbande und sein wachstum im isolierten zustand. Leipzig, Gebrüder Borntraeger, 1908.

Reinmuth, E.
Düngung, dungemittel und pflanzenschutz. In Honcamp, H. Handbuch der pflanzenernährung und düngerlehre. Berlin, 1931. v.2, p.876-898. illus.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY
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Vol. 13, no. 13 June 22-July 3, 1931.

Agr. Progr. (London)

Turner, D. M.
Leaf spot of oats. Agr. Progr. 8: 131-132. 1931.
Helminthosporium avenae.

Agron. Colon. (Paris)

Bouriquet, G.
La "rosette" de l'arachide à Madagascar. Agron. Colon. 20: 105-108. Ap.1931. no.160.

Amer. Fern Journ.

Anderson, W. A., jr.
A list of Tennessee ferns. (cont.) Amer. Fern Journ. 21: 64-71. Ap./Je. 1931 no.2.

Dole, W. H.
Notes on a New Jersey fern garden. II. Amer. Fern. Journ. 21: 57-63, incl. 3 pl. Ap./Je. 1931. no.2.

Pickett, F. L.
Notes on xerophytic ferns. Amer. Fern Journ. 21: 49-57. Ap./Je. 1931.no.2.

Rugg, H. G.
A glimpse of Iceland. Amer. Fern Journ. 21: 71-73. Ap./Je. 1931. no.2.

Schaffner, J. H.
Injurious fungus parasite of Equisetum. Amer. Fern. Journ. 21: 75. Ap./Je. 1931. no.2.
Stammaria americana.

Sharp. A. J.
Trichomanes petersii A. Gray in Tennessee. Amer. Fern. Journ. 21: 73-76. Ap./Je. 1931. no.2.

Amer. Potato Journ.

Tilford, P. E.
The effect of different pressures and of different types of lime in potato spraying. Amer. Potato Journ. 8: 145-150. Je.1931. no.6.

Amer. Potato Journ. (cont.)

Tucker, J.
The effects of seed treatment on black-leg. Amer. Potato Journ. 8: 158-159. Je.1931. no.6.

Anal. Inst. Biol. Univ. Nac. Mexico.

Bravo, H.
Contribucion al conocimento de las cactaceas de Mexico. Nota acerca de la histologia del peyote, Lophophora williamsii Lemaire. Anal. Inst. Biol. Univ. Nac. Mexico. 2: 3-14. illus. 1931. no.1.

Ramirez Laguna, A.
Contribucion para el conocimento de los agaves de Mexico. II. Agave salmiana Otto. Anal. Inst. Biol. Univ. Nac. Mexico 2: 91-95. illus. 1931. no.1.

Ann. Agron. (Paris)

Delage, G.
Travaux récents sur les insecticides et anti-cryptogamiques revue de phytopharmacie. Ann. Agron. n.s., 1: 366-385. illus. My./Je. 1931. no.3.

Ann. Bryol.

Amann, J.
Étude des mousses au microscope polarisant. Ann. Bryol. 4: 1-48. illus., 1 col. pl. 1931.

Chalaud, G.
Germination des spores et formation du gametophyte chez Lophocolea cuspidata et Chiloscyphys polyanthus. Ann. Bryol. 4: 49-78, incl. 4 pl. 1931.

Herzog, T.
Hepaticae philippinenses a cl. C.J. Baker lectae. Ann. Bryol. 4: 79-94. illus. 1931.

Pearson, W. H.
Notes on a collection of Hepaticae from Jamaica. Ann. Bryol. 4: 95-112, incl. pl. i-ii. 1931.

Verdoorn, Fr.
Hepaticae selectae et criticae, series I (1930). Ann. Bryol. 4: 123-139. illus. 1931; series II (1931). Ann. Bryol. 4: 140-150. illus. 1931.

Ann. Bryol. (cont.)

Verdoorn, Fr.
Max Fleischer. Ann. Bryol. 4:113-122. illus., port. 1931.

Ann. Missouri Bot. Gard. (St. Louis)

Card, H. H.
A revision of the genus Frasera. Ann. Missouri Bot. Gard. 18:245-282. pl.14-15. Ap.1931. no.2.

Goodman, G. J.
Notes on the distribution of some Rocky Mountain plants. Ann. Missouri Bot. Gard. 18: 283-286. map. Ap.1931. no.2.

Roush, E. M. F.
A monograph of the genus Sidalcea. Ann. Missouri Bot. Gard. 18: 117-244. pl.5-13. Ap.1931. no.2.

Ann. Mycol. (Berlin)

Blochwitz, A.
Zur morphologie von Aspergillus. Ann. Mycol. 29: 92-101. illus. 1931. no.1/2.

Ciferri, R.
Quinta contribuzione allo studio degli Ustilaginales. (no. 127-257). Ann. Mycol. 29: 1-74. 1931. no.1/2.

Lehwag, H.
Zur ableitung von polyporaceen über Odontia. Ann. Mycol. 29: 87-91. illus. 1931. no.1/2.

Petrak, F.
Mykologische beiträge zur flora von Spanien, Portugal und der Insel Madera. Ann. Mycol. 29: 107-128. 1931. no.1/2.
Cytodiscula n.gen. (C.carnea)

Stevens, F. L.
Parasitic fungi of Peru and Ecuador. Ann. Mycol. 29: 102-106. illus. 1931. no.1/2.
Phaeophragmocauma n.gen. (P.buddleyae), Catacauma galactiae, Phyllachora beuttneriae, P. distichlidis, Didymella clibadii, Hendersonia fungicola n.spp.

Ann. Myco. (cont.)
Zahlbruckner, A.
Neue flechten. - X. Ann. Mycol. 29: 75-86. 1931. no.1.

Ann. Rep. Dept. Agr. Bombay Pres.
Uppal. B. N.
Summary of work done under the plant pathologist to government, Bombay presidency, Poona, for the year 1929-30. Ann. Rep. Dept. Agr. Bombay Pres. 1929/30: 233-236. 1931.

Ann. Rept. Dept. Plant Path. Seale-Hayne Agr. Coll. (Newton Abbot)
Seale-Hayne agricultural college - Dept. of plant pathology.
Annual report. 7th, 1929/30. Mr.1931.
A. Beaumont mycologist.
Host transference by the stem and bulb eelworm (Tylenchus dipsaci) - Notes on fungal diseases during the year - Potato blight - Bacterial rot of broccoli [Bacillus carotovorus] - A fruit rot in strawberries [Phytophthora cactorum] - The control of tulip fire - Bracken inoculation - Fungal diseases of Devon and Cornwall.

Ann. Rep. State Hort. Soc. Michigan (Lansing)
Dutton, W. C.
Arsenical injury to the peach. Ann. Rep. State Hort. Soc. Michigan 60(1930): 107-110. 1931.

Arch. Bot. Sist. Fitogeogr. e Gen. (Forli)
Guadagno, M.
Flora capraearum nova flora di Capri (cont.) Arch. Bot. Sist. Fitogeogr. e Gen. 7: 145-176. Je. 1931. no.2.

Lanzoni, F.
Sulla data di importazione del Calycanthus floridus L. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 177-180. Je.1931. no.2.

Negodi, G.
Lineamenti sulla distribuzione dei sessi (genodianomea) nelle piante superiori e sulle cause genetiche determinanti. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 108-144. Je.1931. no.2.
Urtica.

Arch. Bot. Sist. Fitogeogr. e Gen. (cont.)
Pampanini, R.
Le piante raccolte nel 1930 della contessa Onorina Bargagli-Petrucci nel Gebel tripolitano e nella regione di Ghadames. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 101-107. Je.1931. no.2.

Arch. Protistenk. (Jena)
Oehm, G.
Die saftleitung bei Lentinus squamosus (Schaeff.) Fries und L. squ.f. suffrutescens Brot. Arch. Protistenk. 74: 121-152. pl.3. 1931. no.1.
Beiträge zur kenntnis der hymenomyceten II.

Valkanov, A.
Ueber morphologie und systematik der rotatorien-befallenden pilze. Arch. Protistenk. 74: 5-17. illus. 1931. no.1.
Aphanomyces, Sommerstorfia, Zoophagus.

Valkanov, A.
Zur karyologie eines ascomyceten. Arch. Protistenk. 74: 1-4. pl. 1-2. 1931. no.1.

Arch. Suikerind. Nederl.-Indië. (Soerabaja)
Peereboom, N. J.
Kalimati-ziekteverschijnselen in banjoemas en bagelen. Arch. Suikerind. Nederl.-Indië 1931: 491-497. My.12, 1931. no.19.

Arch. Suikerind. Nederl. Indië (Meded.)
Bremer, G.
De cytologie van het suikerriet. V. Een onderzoek over de somatische chromosomenaantallen van suikerriet. Arch. Suikerind. Nederl. Indië 1931 pt. 3. (Meded.): 583-607. 1931. no.13.

Kulescha, M.
Oriënterrend onderzoek over de ontwikkeling van het wortelstelsel bij 2878 poi in verband met de grondsoort. Arch. Suikerind. Nederl. Indië 3, (Meded. 1931): 317-358. illus., 18 pl. on 9. 1931. no.8.

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e. Nat. (Rome)

Periotti, R.
Le mico-batteriosi. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 13: 627-629. Ap.26, 1931. no.8.
Bacterial, in connection with a fungus.

Rivera, V.
Fattori eccitativi dell'accrescimento di neoplasmi vegetali de B. tumefaciens. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 13:621-627. illus. Ap.26, 1931. no.8.
Experiments with Pelargonium.

Ber. Deut. Bot. Ges. (Berlin)

Cholodny, N.
Zur frage nach dem einfluss von salzen auf den geotropismus der wurzeln. Ber. Deut. Bot. Ges. 49: 222-227. My.21, 1931. no.4.

Diels, L.
Adolf Engler, geboren am 25. Marz 1844 in Sagan, gestorben am 10. Oktober 1930 in Berlin-Dahlem. Ber. Deut. Bot. Ges. 48(Generalversamml. 2 heft): (146)-163.) port. My.19, 1931. no.2.

Döpp, W.
Ueber die wirkung der schwefligen säure auf blütenorgane. Ber. Deut. Bot. Ges. 49:173-221. illus. My.21, 1931. no.4.

Håkansson, A.
Chromosomenverkettung bei Godetia und Clarkia. Ber. Deut. Bot. Ges. 49: 228-239. illus. My.21, 1931. no.4.

Harder, R.
Hans Kniep. Ber. Deut. Bot. Ges. 48(Generalversamml. - 2 heft): (146)-(196). port. My.19, 1931. no.2.

Hayata, B.
Jinzô Matsumura (1856-1928). Ber. Deut. Bot. Ges. 48(Generalversamml. - 2 heft): (201)-(204). port. My.19, 1931. no.2.

Ber. Deut. Bot. Ges. (cont.)

Issatschenko, B.
Ueber die verwitterung vegetabilischer objekte Ber. Deut. Bot. Ges. 49:170-172. illus. My.21, 1931. no.4.

Kolkwitz, R.
Nikolaus Gaidukow. Ber. Deut. Bot. Ges. 48(Generalversamml. 2 heft): (197)-(200). port. My.19, 1931. no.2.

Loesener, T.
Ignatius Urban. Ber. Deut. Bot. Ges. 48 (Generalversamml.-2 heft): (205)-(225). port. My.19, 1931. no.2.

Schreiber, E.
Ueber die geschlechtliche fortpflanzung der Sphacelariales. Ber. Deut. Bot. Ges. 49: 235-240. illus. My.21, 1931. no.4.

Bergcultures (Batavia, Java)

Bally, W.
In memoriam A. Zimmermann. Bergcultures 5: 535-536. My.16, 1931. no.20.

Reydon, G. A.
Voorloopige mededeeling over een infectiehaard van streepjeskanker bij Hevea. Bergcultures 5: 536-539. illus. My.16, 1931. no.20.

Biol. Bull. (Woods Hole, Mass.)

Hall, S. R.
Observations on Euglena leucops, sp.nov., a parasite of Stenostomum, with special reference to nuclear division. Biol. Bull. 60: 327-344, incl. 2 pl. illus. Je.1931. no.3.

Bol. Min. Agr. Nac. Argentine.

Millan, A. R.
Solanáceas Argentinas clave para la determinación de los géneros. Bol. Min. Agr. Nac. Argentine 30: 1-21. illus. F./Mr.1931. no.1.

Ruiz, L. F.
Datos para la agrostologia Argentina y valor nutritivo de algunas gramineas forrajeras. Bol. Min. Agr. Nac. Argentine 30: 49-71. illus. F./Mr. 1931. no.1.

Bol. R. Soc. Espan. Hist. Nat. (Madrid)

Caballero, A.
Plantas herborizadas en 1923 en la región de Larache (Marruecos) (cont.) Bol. R. Soc. Espan. Hist. Nat. 31: 97-100. Mr.15, 1931 no.2.

Martinez, J. B. & Guinea, E.
Nueva aportacion a la microflora española. Bol. R. Soc. Espan. Hist. Nat. 31: 211-220. illus. Ap.5, 1931. no.3.

Martinez Martinez, M.
Contribusión al estudio de las Digitales. II. Bo. R. Soc. Espan. Hist. Nat. 31: 105-112. illus. Mr.15, 1931. no.2.

Paunero Ruiz, E.
Algunos datos sobre mohos. Bol. R. Soc. Espan. Hist. Nat. 31: 101-104. illus. Mr.15, 1931. no.2.
Diplosporium phoesporium n.sp.

Ruiz de Azúa, J.
Equisetos de la provinica de Alavá. Equisetos españoles (3 a serie). Bol. R.Soc. Espan. Hist. Nat. 31: 201-210. illus. Ap.5, 1931. no.3.

Unamuno, L. M.
Contribución al estudio de los hongos microscópicos del la provincia de Salamanca. Bol. R. Soc. Espan. Hist. Nat. 31: 85-96. Mr.15, 1931. no.2.

Unamuno, L. M.
Reliquiae fragosoanae. Bol. R. Soc. Espan. Hist. Nat. 31: 197-199. Ap.5, 1931. no.3.

Bot. Gaz. (Chicago)

Barclay, B. D.
Origin and development of tissues in stem of Selaginella wildenovii. Bot. Gaz. 91: 452-461. illus. Je.1931. no.4.

Braun, E. L.
A hybrid Lobelia. Bot. Gaz. 91: 462-463. Je. 1931. no.4.
Lobelia syphilitica x puberula.

Bot. Gaz. (cont.)

Cooper, W. S.
The layering habit in Sitka spruce and the two western hemlocks. Bot. Gaz. 91: 441-450. illus. Je. 1931. no.4.

Isbell, C. L.
Regeneration in leaf cuttings of Ipomoea batatas. Bot. Gaz. 91: 411-425. illus. Je. 1931. no.6.

Juliano, J. B.
Floral morphology of Lyonothamnus floribundus. Bot. Gaz. 91: 426-440. illus. Je. 1931. no.4.

Lampe, L.
A microchemical and morphological study of the developing endosperm of maize. Bot. Gaz. 91: 337-376. illus., pl. iii. Je. 1931. no.4.

Smith, C. M.
Development of Dionaea muscipula. II. Germination of seed and development of seedling to maturity. Bot. Gaz. 91: 378-394. illus. Je. 1931. no.4.

Smith, F., Dustman, R. B. & Shull, C. A.
Ascent of sap in plants. Bot. Gaz. 91: 395-410. illus. Je. 1931. no.4.

Brooklyn Bot. Gard. Leafl.

Svenson, H. K.
Important herbaceous plants of the greater New York region. Brooklyn Bot. Gard. Leafl. 19: 1-7. My.27, 1931. no.4/5.

Bryologist (Pittsburg)

Brinkman, A. H.
Notes on some Canadian hepatics. 2. Bryologist 34: 11-13. 1 pl. Mr.1931. no.2.
Metzgeria furcata, M. furcata pacifica var. nov., M. conjugata, M. myriopoda.

Gyelnik, V.
Notes on Peltigera. Bryologist 34: 16-19. Mr. 1931. no.2.
P.evansiana, P. chilensis, n.spp.

Bryologist (cont.)

Marquand, C.V.B.
A bryological holiday in the eastern Alps. Bryologist 34: 23-26. Mr.1931. no.2.

Roberts, C. M.
Leucobryum albidum for West Virginia. Bryologist 34: 22. Mr. 1931. no.2.

Williams, R. S.
Homalia sharpii, sp.nov. Bryologist 34: 20. 1 pl. Mr.1931. no.2.

Bull. Assoc. Chim. Sucrerie & Distill. France & Colon. (Paris)

M. le Professeur Pieraerts. Bull. Assoc. Chim. Sucrerie & Distill. France & Colon. 48: 237-238. My.1931. no.5.
Notice of death.

Bull. Jard. Bot. Buitenzorg.

Boedijn, K. B. &Steinmann, A.
Les especes des genres Helicobasidium et Septobasidium des Indes Neerlandaises. Bull. Jard. Bot. Buitenzorg III, 11: 165-219. illus., pl.14-18, 2 col. My.1931. no.2.

Boedijn, K. B.
Notes on some sooty moulds. Bull. Jard. Bot. Buitenzorg. III, 11: 220-231. illus. My.1931. no.2.
Capnodium theae, n.sp.

Emoto, Y.
Javanische myxomyceten. Bull. Jard. Bot. Buitenzorg III, 11: 161-164. My.1931. no.2.

Smith, J. J.
On a collection of Orchidaceae from Central Borneo. Bull. Jard. Bot. Buitenzorg. III, 11: 83-160. My. 1931. no.2.

Bull. Misc. Inform. Kew. (London)

Cheesman, E. E.
A note on Musa ornata. Bull. Misc. Inform. Kew. 1931: 297-299. 2 pl. on 1. no.6.

Bull. Misc. Inform. Kew. (cont.)

Cotton, A. D.
The arborescent Senecios of the Virunga mountains. Bull. Misc. Inform. Kew. 1931: 289-297. map. no.6.

Hooper, D.
Some Persian drugs. Bull. Misc. Inform. Kew 1931: 299-344. no.6.

Marsden-Jones, E.M. & Turrill, W. B.
Researches on Silene maritima and S. vulgaris. VI. Bull. Misc. Inform. Kew 1931: 345-352. no.6.

Bull. Pop. Inform. Arnold Arb.

Ames, O.
Botanical drawings by John Singer Sargent. Bull. Pop. Inform. Arnold Arb. III, 5: 37-40. 2 pl. (1 suppl.) Je.24, 1931. no.10.

Bull. R. Soc. Tosc. Ortic. (Firenze)

Rinaldi, Z.
Le prunee ornamentali (cont.) Bull. R. Soc. Tosc. Ortic. 56: 21-27. illus. My./Je. 1931. no.3/6.

Bull. Soc. Nat. Acclim. France (Paris)

Flach, G.
Utilisation des fruits de l'Opuntia ficus indica. Bull. Soc. Nat. Acclim. France 78: 159-163. illus. My.1931. no.5.

Bull. Torr. Club.

Blinks, L. R. & Blinks, A. H.
Two genera of algae new to Bermuda. Bull. Torr. Club. 57: 389-395. pl.22-23. Je.1930(Rec'd Je.1931) no.6.
Halicystis osterhoutii, n.sp., Corynomorpha clavata.

Rydberg, P. A.
Notes on Fabaceae XIII. Tium. Bull. Torr. Club. 57: 397-407. Je.1930 (Rec'd Jr.1931) no.6.

Smith, G. M.
Notes on the Volvocales. I-IV. Bull. Torr. Club 57: 359-369. pl.17-18. Je.1930(Rec'd Je.1931) no.6.
I. A consideration of the species of Eudorina. II. The phylogeny of the higher colonial Volvocales. III. Pandorina charkowiensis Korshikow. IV. Gonium formosum Pascher and Gonium sociale (Duj.) Warming.

Bull. Torr. Club (cont.)

Tilden, J. E. & Fessenden, A. P.
Bactrophora irregularis, a new brown alga from Australia. Bull. Torr. Club 57: 381-386. pl. 20-21. Je. 1930(Rec'd Je.1931) no.6.

Wodehouse, R. P.
The origin of the six-furrowed configuration of Dahlia pollen grains. Bull. Torr. Club. 57: 371-379. pl.19. Je. 1930(Rec'd Je.1931) no.6.

Compt. Rend. Acad. Sci. Paris.

Binet, L. & Magrou, J.
Glutathion, croissance et cancer des plantes. Compt. Rend. Acad. Sci. Paris 192: 1415-1416. Je.1, 1931. no.22.

Chareux, C. & Rabaté, J.
Contribution à l'étude biochimique du genre Salix. Un nouveau glucoside hydrolysable par l'émulsine retiré de l'écorce du Salix purpurea L., le salipurposide. Compt. Rend. Acad. Sci. Paris 192: 1478-1480. Je.8, 1931. no.23.

Coupin, H.
Sur un facteur méconnu de la variation momentanée des végétaux. Compt. Rend. Acad. Sci. Paris 192: 1583-1585. Je.15, 1931. no.24.

Duparque, A.
Sur la structure microscopique et l'origine des houilles à coke et des houilles bitumineuses. Compt. Rend. Acad. Sci. Paris 192: 1472-1474. Je.8, 1931. no.23.

Gavaudan, P. & Cazalas, R.
Sur quelques phénomènes tératologiques observés pendant la spermatogénèse des characées. Compt. Rend. Acad. Sci. Paric 192: 1480-1482. illus. Je.8, 1931. no.23.

Guilliermond, A.
Nouvelles recherches sur les caractères microchimiques et sur le mode de formation cytologique des pigments anthocyaniques. Compt. Rend. Acad. Sci. Paris 192: 1581-1583. Je.15, 1931. no.24.

Compt. Rend. Acad. Sci. Paris (cont.)

Labergerie,
Action des circuits oscillants sur la dégénérescence des pomme de terre. Compt. Rend. Acad. Sci. Paris. 192: 1408-1410. Je.1, 1931. no.22.

Laviaille, P. & Jaeger, P.
L'origine du fruit dans ses rapports avec la pollinisation chez Knautia arvensis Coult. Compt. Rend. Acad. Sci. Paris 192: 1474-1476. Je.8, 1931. no.23.

Miège, E.
Lignées à fleurs polycarpiques dans un hybride de Triticum vulgare H. Compt. Rend. Acad. Sci. Paris 192: 1482-1485. Je.8,1931. no.23.

Moreau, F. & Moruzi, C.
Recherches experimentales sur la formation des périthèces chez les "Neurospora". Compt. Rend. Acad. Sci. Paris 192: 1475-1478. Je.8, 1931. no.23.

Py, G.
Sur l'évolution des constituants cytoplasmiques des cellules polliniques du Vincetoxicum officinale. Compt. Rend. Acad. Sci. Paris 192: 1406-1407. illus. Je.1,1931. no.22.

Compt. Rend. Soc. Biol. Paris.

Manceau, P. & Bigé,
Phytostérols des graines, des farines et des fruits. Compt. Rend. Soc. Biol. Paris 107:635-636. Je.12, 1931. no.19.

Manceau, P.
Réactions du Penicillium glaucum cultivé sur liquide type de raulin, additionné de doses croissantes de chlorure de calcium; métabolisme des sucres. Compt. Rend. Soc. Biol. Paris 107: 633-634. Je.12,1931. no.19.

Manceau, P. & Rey, J.
Sur la nature des pigments renfermés dans le Penicillium glaucum cultivé sur liquide type de raulin. Compt. Rend. Soc. Biol. Paris 107: 634-635. Je.12, 1931. no.19.

Compt. Rend. Soc. Phys. & Hist. Nat. Genève.

Briquet, J.
Adolf Engler, 1844-1930. Compt. Rend. Soc. Phys. & Hist. Nat. Genève 48: 9-14. Ja./Mr. 1931. no. 1.

Chodat, F. & Kann, S.
Etude de la marche diurne de la transpiration de deux plantes alpines. Compt. Rend. Soc. Phys. & Hist. Nat. Genève 48: 50-55. Ja. /Mr.1931. no.1.
Eryngium alpinum, Adenostyles alliariae.

Chodat, F.
Influence de la lumière sur la transpiration. végétale. Compt. Rend. Soc. Phys. & Hist. Nat. Genève 48: 55-58. Ja./Mr.1931. no.1.

Deshusses, L. & Deshusses, J.
Répartition des pyréthrines dans la fleur de pyrèthre. Compt. Rend. Soc. Phys. & Hist. Nat. Genève 48: 47-49. Ja./Mr. 1931. no.1.

Difesa Piante Torino.

Bongini, V.
Muffe della canapa in germinazione. Difesa Piante Torino 8(2): 4-8. Ap.1931. no.2.

Lanza, M.
Su un "deperimento delle piantine di riso". Difesa Piante Torino 8(1): 6-9. F. 1931. no.1.

Voglino, P.
Le macchie nere del pomodoro. (Macrosporium lycopersici Plowr.) Difesa Piante Torino 8(1): 1-3. F.1931. no.1.

Voglino, P.
Il nerume delle castagne. Difesa Piante Torino 8(2): 1-4. Ap.1931. no.2.

Voglino, P.
Il "seccume" del pioppo. Difesa Piante Torino 8(3): 1-3. Je.1931. no.3.
Didymosphaeria populina.

Forstarchiv. (Hannover)

Manshard, E.
Fichtenschädigungen durch chlorhaltige düngemittel. Forstarchiv. 7:215-217. Je.1,1931. no.11.

Fortschr. Landw. (Vienna)

Sessous, G.
Landwirtschaft und pflanzenzüchtung.
Fortschr. Landw. 6: 385-388. Je.15, 1931. no.12.

Zade, A.
Der latente pilzbefall und seine folgeerscheinungen mit bezug auf sortenimmunität und reizwirkung. Fortschr. Landw. 6: 388-391. Je.15,1931. no.12.

Gard.Chron. (London)

The behaviour of garden plants. III. Berberis Darwinii. Gard. Chron. III, 89: 443. Je.13, 1931.

Comber, H. F.
Sellieria radicans and Hypsela longiflora. Gard. Chron. III, 89: 469-470. illus. (p.471) Je.20, 1931. no.2321.

Gustav Rivière. Gard. Chron. III, 89: 460. Je.13, 1931.
Notice of death.

James, C. W.
Cedrus libani var. brevifolia and Quercus alnifolia in Cyprus. Gard. Chron. III, 89: 468. illus. Je.20, 1931. no.2321.

Stearn, W. T.
Kalanchoe aleurodes. Gard. Chron. III, 89: 475. illus. (p.464). Je.20,1931. no.2321.

Thomas, G. S.
Erythroniums. Gard. Chron. III, 89: 471. Je.20, 1931. no.2321.

Ward, F. K.
The Roosevelt expedition in French Indo-China. XVII. - Hué and Saigon. Gard. Chron. III, 89: 472-473. illus. Je.20,1931. no.2321.

Gartenw.(Berlin)

Mecherauch, O.
Die johannisbeersorten und ihre zugehörigkeit zu den botanischen arten. Gartenw. 35: 332-333. illus. Je.12, 1931. no.24.

Hadar (Palestine Citrogr.) (Jaffa)
Reichert, I. & Hellinger, E.
Control of mould wastage in oranges by careful handling. Hadar (Palestine Citrogr.) 4: 115-117. illus. My.1931. no.5.
4th contribution to the Investigation of fruit rots, supported by the Empire marketing board.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)
Wedekind, E. & Schicke, W.
Ueber das sapogenin der guajakrinde. II. Die identität des guagenins mit dem zuckerrübensapogenin. Hoppe-Seyl. Zeitschr. Phys. Chem. 198: 181-184. Je.8,1931. no.3/4.

Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) (Leningrad)
Busch, N. & Busch, E.A.
Botaniceskoe isslevovanie Iugo-oestii v 1928-1930 gg.(Exploration botanique de l'Ossétie méridionale au cours des années 1928-1930)/ Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) 1931: 439-448.
Russian.

Busch, N. A.
Novye i malo izvestnye rasteniia iz liutikovykh i krestotsvetnykh (Sur des plantes nouvelles et peu connues de familles de renonculacées et de crucifères). Izv. Akad. Nauk SSSR (Bull. Acad. Sci. URSS) 1931: 449-459. illus. no.3.
Russian with Latin diagnosis of new species (Delphinium osseticum, D.ironorum, Cardamine victoris, Erysimum strictisiliquum)

Jahrb. Wiss. Bot. (Leipzig)
Firbas, F.
Untersuchungen über den wasserhaushalt der hochmoorpflanzen. Jahrb. Wiss. Bot. 74: 459-696. 1931. no.4/5.

Braun-Blanquet, J. & Walter, H.
Zur Ökologie der Mediterranpflanzen. (Untersuchungen über den osmotischen wert). Jahrb. Wiss. Bot. 74: 697-748. illus. 1931. no.4/5.

Pringsheim, E. G.
Untersuchungen über turgordehnung und membranbeschaffenheit. Jahrb. Wiss. Bot. 74: 749-796. 1931. no.4/5.

Journ. Agr. Res. (Washington, D. C.)

Blair, A. W.
Percentage dry matter and field weight of ear corn from unlimed and limed plots. Journ. Agr. Res. 42: 773-774. Je.1,1931.(Je.18) no.11.

Kiesselbach, T. A. & Culbertson, J. O.
An analysis of the effects of Diplodia infection and treatment of seed corn. Journ. Agr. Res. 42: 723-749. illus. Je.1,1931 (Je.18) no.11.

McClelland, C. K. & Neeley, J. W.
The order, rate, and regularity of blooming in the cotton plants. Journ. Agr. Res. 42: 751-763. illus. Je.1,1931 (Je.18) no.11.

Markley, K. S. & Sando, C. E.
Progressive changes in the waxlike coating on the surface of the apple during growth and storage. Journ. Agr. Res. 42: 705-722. illus. Je.1,1931. (Je.18) no.11.

Stewart, G. & Bischoff, R. K.
Correlated inheritance in a cross (Sevier x Dicklow) x Dicklow wheats. Journ. Agr. Res. 42: 775-790. Je.1, 1931 (Je.18) no.11.

Journ. Amer. Soc. Agron. (Geneva, N.Y.)

Collings, G. H. & Wallace, R.W.
The extent of vicinism in cotton at Clemson College. Journ. Amer. Soc. Agron. 23: 490-492. Je.1931. no.6.

Harvey, R. B.
The action of toxic agents used in the eradication of noxious plants. Journ. Amer. Soc. Agron. 23: 481-489. illus. Je. 1931 no.6.

Smith, D.C. & Bressman, E.N.
Susceptibility of Markton and other varieties of oats to cover smut (Ustilago levis). Journ. Amer.Soc. Agron. 23: 465-468. Je.1931. no.6.

Stewart, G. & Judd, B. I.
Inheritance of awns in a Kota x Hard Federation cross. Journ. Amer. Soc. Agron. 23: 455-464. illus. Je.1931. no.6.

Journ. Cactus & Succ. Soc. Amer.

Brown, N. C.
A new South African Euphorbia. Journ. Cactus & Succ. Soc. Amer. 2: 491-492. illus. Je.1931. no.12.
E. frickiana (discovered by G.A.Frick)

Johansen, D. A.
Movements of cacti. Journ. Cactus & Succ. Soc. Amer. 2: 494-495. illus. Je.1931. no.12.

Manning, J.
An introduction to the study of cacti. (cont.) Journ. Cactus & Succ. Soc. Amer. 2: 496-498. illus. Je.1931. no.12.

Memoriam to Alwin Berger. Journ. Cactus & Succ. Soc.Amer. 2: 499. Je.1931. no.12.

Journ. Dept. Agr. So. Australia.(Adelaide)

Leishman, E.
Silver leaf. Journ. Dept. Agr. So. Australia 34: 1015-1017. illus. My.15,1931. no.10.

Journ. Dept. Agr. Victoria (Melbourne)

Grieve, B. I.
Rose diseases and their control. IX. Rose graft disease. X. Crown canker of roses. XI. Cane blight of the rose. Journ. Dept. Agr. Victoria.29:249-253. illus. My. 1931. no.5.

Twentyman, R. L.
Experiments on the control of "stinking" smut or bunt. II. Tests of the dry copper powders. Journ. Dept. Agr. Victoria 29: 235-248. illus. My.1931. no.5.

Journ. Hered.(Washington,D.C.)

Cook, O. F.
Inequality of cotton fibers. A direct method of comparing substaple. Journ.Hered. 22: 25-34, incl. 4 pl. Ja. 1931. no.1.

Currence, T. M.
A new pod color in snap beans. Journ. Hered. 22: 21-23. illus. Ja.1931. no.1.

Journ. Hered. (cont.)

Li, H. W.
Heritable characters in maize. XXXVII. - Brevis. Journ. Hered. 22: 14-16. illus. Ja.1931. no.1.

Swanson, A.F. & Parker, J. H.
Inheritance of smut resistance and juiciness of stalk. Journ. Hered. 22: 51-56. illus. F. 1931. no.2.
In the sorghum cross, red amber x feterita.

Journ. N.Y. Bot. Gard.

Small, J. K.
The cypress, southern remnant of a southern fossil type. Journ. N.Y. Bot. Gard. 32: 125-135. illus. Je.1931. no.4.
Taxodium distichum.

Journ. Sci. Hiroshima Univ. Ser. B, Div. 2(Botany)

Horikawa, Y.
Studies on the Hepaticae of Japan IV. Journ. Sci. Hiroshima Univ. Ser. B, Div. 2(Botany) 1: 13-35. illus., ii pl. Ja.1931. no.2.

Shimotomai, N.
Bastardierungsversuche bei Chrysanthemum. I. Journ. Sci. Hiroshima Univ. Ser. B, Div. 2(Botany) 1: 37-54. illus., pl.3-6. Mr.1931. no.3.

Shimotomai, N.
Chromosomenzahlen und phylogenie bei der gattung Potentilla. Journ. Sci. Hiroshima Univ. Ser. B, Div. 2(Botany) 1: 1-11. illus. D.1930. no.1.

Just. Liebigs Ann. Chem. (Berlin)

Dragendorff, O.
Ueber das harz von Garcinia mangostana L. II. Just. Liebigs Ann. Chem. 487: 62-79. Je.6, 1931. no.1.

Kranke Pflanze. (Dresden)

Kaven, G.
Witterungseinflüsse als ursache der unfruchtbarkeit der obstbäume. Kranke Pflanze 8: 64-66. Ap./My.1931. no.4/5.

Kranke Pflanze. (cont.)
Ludwigs, K.
Die bekämpfung von krankheiten und schädlingen an gemüsepflanzen. (cont.) Kranke Pflanze 8: 56-60. Ap./My.1931. no.4/5.

Lingnan Sci. Journ. (Lingnaam Agr.Rev.) (Canton, China)
Jacot, A. P.
Asamushi hillside ferns. Lingnan Sci. Journ. (Lingnaam Agr.Rev.) 10: 1-4. Ap.1931. no.1.

McClure, F. A.
Studies on Chinese bamboos. I. A. new species of Arundinaria from southern China. [A. amabilis]. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 10: 5-10. pl. 1-8. Ap.1931. no.1.

Metcalf, F. P.
Herbaria in China. II. Lingnan Sci. Journ. (Lingnaam Agr. Rev.) 10: 101-111. Ap.1931. no.1.

Mežsaimn. Rakstu Kraj. (Samml. Forstw. Schrift.) (Riga)
Hoheisels, A.
Zemsedzes nozime mežu tipu klasifikacija. (Die bedeutung der bodenflora für die waldtypen-klassifikation) Mežsaimn. Rakstu. Kraj. (Samml. Forstw. Schrift.) 8: 104-135. 1930.
Latvian with German summary: p.132-135.

Missouri Bot. Gard. Bull.(St.Louis)
Ledgerwood, M.
The American Bottom and the characteristic plants of the region. Missouri Bot. Gard. Bull. 19: 99-109. map. Je.1931. no.6.
Region commencing at the bluffs at Alton and extending south to Prairie du Pont Creek in St. Clair County, Ill.

Möller's Deut. Gärtn.-Zeit. (Erfurt)
Backeberg, C.
Kakteen-seltenheiten. Meine Peru-expedition 1930-1931. II. Möller's Deut. Gärtn.-Zeit. 46: 206-207. Je.21, 1931. no.18.

Mycologia (Lancaster, Pa.)

Blain, W. L.
A list of diseases of economic plants in Alabama. Mycologia 23: 300-304. Jl./Ag. 1931. no. 4.

Seaver, F. J.
Photographs and descriptions of cup fungi.XIV. A new genus. Mycologia. 23: 247-251. pl.23-24. Jl./Ag.1931. no.4.
Chloroscypha, C. jacksoni.

Sideris, C. P.
Taxonomic studies. in the family Pythiaceae. I. Nematosporangium. Mycologia 23: 252-295. illus. illus. Jl./Ag.1931. no.4.

Zundel, G. L.
Notes on new species of Ustilaginales. Mycologia 23: 296-299. Jl./Ag. 1931. no.4.

Nachr. Schädlingsbekämpfung. (Leverkusen b. Köhn a Rh.)

Baudys, E.
Die blattfleckenkrankheit der sellarie. Nachr. Schädlingsbekämpfung 6: 54-55. illus. Je.1931. No.2.

Fischer, J.
Hedit gegen pestwurz. Nachr. Schädlingsbekämpfung 6: 38-42. illus. Je. 1931. no.2.

Fischer, R.
Zur bekämpfung des wurzelbrandes der zuckerrübe. Nachr. Schädlingsbekämpfung 6: 33-35. Je. 1931. no.2.

Schouten, J.
Ergebnis eines spritzversuches mit nosprasit zu äpfeln und birnen. Nachr. Schädlingsbekämpfung. 6: 56-59. illus. Je.1931. no.2.

Nature Mag. (Washington, D.C.)

Fisher, E. L.
When southeast Alaska blooms. Some of the flowers of the southern coast. Nature Mag. 18: 29-32. illus. Jl.1931. no.1.

Nat. Canad. (Quebec)

Caron, O.
Noms populaires des plantes. Nat. Canad. 58: 135-138. Je./Jl. 1931. no.6/7.

Rousseau, J.
Le phyllotaxe: un appareil pratique pour la demonstration de la divergence. Nat. Canad. 58: 129-131. illus. Je./Jl. 1931. no.6/7.

New Phytol. (London)

Brooks, F. T. & Branchley, G. H.
Further injection experiment in relation to Stereum purpureum . New Phytol. 30: 128-135. My.30, 1931. no.2.

Chapman, G. W.
The cause of succulence in plants. New Phytol. 30: 119-127. illus. My.30 , 1931. no.2.

Saunders, E. R.
Illustrations of carpel polymorphism. VII. New Phytol. 30: 80-118. illus. My.30, 1931. no.2.

New Zeal. Journ. Agr. (Wellington)

Allan, H. H.
Spartina-grass and mud-flat reclamation. New Zeal. Journ. Agr. 42: 295-299. illus. My.20, 1931. no.5.

Brien, R. M.
Pathogenicity of the bark-blotch organism. New Zeal. Journ. Agr. 42: 341-347. illus. My.20, 1931. no.5.
Ascochyta corticola on lemon.

Cunningham, G. H.
Additions to the recorded plant diseases of New Zealand. New Zeal. Journ. Agr. 42: 305-306. My.20, 1931. no.5.

Oesterr. Bot. Zeitschr. (Wien)

Hruby, J.
Der formenkreis von Centaurea jacea L. ssp. angustifolia (Schrank) Gugler in Mähren. Oesterr. Bot. Zeitschr. 80: 168-170. My.20, 1931. no.2.

Oesterr. Bot. Zeitschr. (cont.)

Lehmann, P.
Messungen der freien kohlensäure in und über dem boden einiger der bioklimatischen stationen des lunzer gebietes. Oesterr. Bot. Zeitschr. 80: 98-107. illus. My.20, 1931. no.2.

Müller, L.
Ueber den bau und die mechanik der blüte von Globba atro-sanguinea. Oesterr. Bot. Zeitschr. 80: 149-161. illus. My.20, 1931. no.2.

Tobisch, J.
Beitrage zur kenntnis der pilzfloren von Karnten. III. Oesterr. Bot. Zeitschr. 80: 108-135. My.20, 1931. no.2.

Werner, O.
Haar-und cystolithenscheiben in blattgeweben bei Urticales, bei Bryonia dioica und Zexmenia longipetiolata. Oesterr. Bot. Zeitschr. 80: 81-97. illus. My.20, 1931. no.2.

Widder, F. J.
Beitrage zur kenntnis der gattung Leontodon. II. Die "nickenden knospen" einiger Leontodon-arten in ihrer bedeutung für das system der gattung. Oesterr. Bot. Zeitschr. 80: 136-148. illus. My.20, 1931. no.2.

Witasek, J.
Die von Prof. Dr. V. Schiffner in den jahren 1893 und 1894 auf Java und Sumatra gesammelten solanaceen. Oesterr. Bot. Zeitschr. 80: 162-167. My.20, 1931. no.2.
Solanum schiffnerianum n.sp.

Phil. Trans. Roy. Soc. London

Birkinshaw, J. H. & Raistrick, H,
Studies in the biochemistry of micro-organisms. II. Quantitative methods and technique of investigation of the products of metabolism of micro-organisms. Phil. Trans. Roy. Soc. London. B, 220: 11-26. illus. 1931.

Phil. Trans. Roy. Soc. London. (cont.)

Birkinshaw, J. H., Charles, J. H. V., Raistrick, H. & Stoyle, J. A. R.
Studies in the biochemistry of micro-organisms III. Quantitative examination by the carbon balance sheet method of the types of products formed from glucose by species of Aspergillus. Phil. Trans. Roy. Soc. London. B,220: 27-54. 1931.

Birkinshaw, J. H., Charles, J. H. V., Hetherington, A. C. Raistrick, H.
Studies in the biochemistry of micro-organisms IV. Quantitative examination by the carbon balance sheet method of the types of products formed from glucose by species of Penicillium (including Citromyces) Phil. Trans. Roy. Soc. London. B, 220: 55-92. 1931.

Birkinshaw, J. H., Charles, J. H. V., Raistrick, H. & Stoyle, J. A. R.
Studies in the biochemistry of micro-organisms V. Quantitative examination by the carbon balance sheet method of the types of products formed from glucose by species of Fusarium. Phil. Trans. Roy. Soc. London B, 220: 93-98. 1931.

Birkinshaw, J. H., Charles, J. H. V., Hetherington, A. C. & Raistrick, H.
Studies in the biochemistry of micro-organisms VI. Quantitative examination by the carbon balance sheet method of the types of products formed from glucose by miscellaneous species of fungi. Phil. Trans. Roy. Soc. London B,220: 99-125. 1931.

Birkinshaw, J. H., Charles, J. G. V., Lilly, C. H. & Raistrick, H.
Studies in the biochemistry of micro-organisms VII. Kojic acid (5-hydroxy-2-hydroxymethyl-y-pyrone). Phil. Trans. Roy. Soc. London. B,220: 127-138. 1931.

Birkinshaw, J. H. & Raistrick, H.
Studies in the biochemistry of micro-organisms VIII. The estimation of kojic acid. Phil. Trans. Roy. Soc. London B,220: 139-152. 1931.

Phil. Trans. Roy. Soc. London. (cont.)

Birkinshaw, J. H., Charles, J. H. V., Hetherington, A. C. & Raistrick, H.
Studies in the biochemistry of micro-organisms IX. On the production of mannitol from glucose by species of Aspergillus. Phil. Trans. Roy. Soc. London B,220: 153-171. 1931.

Birkinshaw, J. H. & Raistrick, H.
Studies in the biochemistry of micro-organisms XII. On a new methoxy-dihydroxy-toluquinone produced from glucose by species of Penicillium of the P. spinulosum series. Phil. Trans. Roy. Soc. London, B, 220: 245-254. 1931.

Birkinshaw, J. H. & Raistrick, H.
Studies in the biochemistry of micro-organisms XVII. The products of glucose metabolism formed by various species of fungi (Helminthosporium, Clasterosporium, etc.) Phil. Trans. Roy. Soc. London, B, 220: 331-353. 1931.

Birkinshaw, J. H., Charles, J. H. V. & Raistrick, H.
Studies in the biochemistry of micro-organisms XVIII. Biochemical characteristics of species of Penicillium responsible for the rot of citrus fruits. Phil. Trans. Roy. Soc. London, B,220: 355-362. 1931.
P. digitatum, P. italicum.

Clutterbuck, P. W., Raistrick, H. & Rintoul, M. L.
Studies in the biochemistry of micro-organisms XVI. On the production from glucose by Penicillium spiculisporum Lehman of a new polybasic fatty acid $C_{17}H_{28}O_6$ (the lactone of y-hydroxy - -dicarboxypentadecoic acid). Phil. Trans. Roy. Soc. London. B, 220: 301-330. 1931.

Coyne, F. P., Raistrick, H. & Robinson, R.
Studies in the bio-chemistry of micro-organisms. XV. The molecular structure of citrinin. Phil. Trans. Roy. Soc. London B,220: 297-300. 1931.

Hetherington, A. C. & Raistrick, H.
Studies in the biochemistry of micro-organisms. XI. On citromycetin, a new yellow colouring matter produced from glucose by species of Citromyces. Phil. Trans. Roy. Soc. London B,220: 209-244. 1931.

Phil. Trans. Roy. Soc. London. (cont.)

Raistrick, H. & Young, W.
Studies in the biochemistry of micro-organisms X. The estimation of mannitol in fermentation solutions. Phil. Trans. Roy. Soc. London, B,220: 173-207. 1931.

Raistrick, H. & Rintoul, M. L.
Studies in the biochemistry of micro-organisms XIII. On a new type of mucilaginous material, luteic acid, produced from glucose by Penicillium luteum Zukal. Phil. Trans. Roy. Soc. London B,220: 255-267. 1931.

Prakt. Blätt. Pflanzenb. u. Pflanzensch. (Freising.)

Böning, K.
Krankheiten, schädlinge und witterungsschäden am tabak im jahre 1930. Prakt. Blätt. Pflanzenb. u. Pflanzensch. 9: 56-60. Je.1931. no.3.

Fürst, F.
Die klappertopf-(Alectorolophus-) unkräuter und ihre bekämpfung. Prak. Blätt. Pflanzenb. u. Pflanzensch. 9: 49-56. illus. Je. 1931. no.3.

Proc. Amer. Soc. Hort. Sci.

Adriance, G. W.
Dichogamy in the pecan. Proc. Amer. Soc. Hort. Sci. 27(1930): 435-439. F.1931.

Baker, C. E.
A study of the skin structure of the Grimes apple as affected by different types of injury. Proc. Amer. Soc. Hort. Sci. 27(1930): 75-81. 4 pl. on 2. F.1931.

Bregger, J. T.
The prevalence and commercial importance of bud mutations in the deciduous fruits. Proc. Amer. Soc. Hort. Sci. 27(1930): 425-429. F.1931.

Brierley, W. G.
Transpiration rates in old and new canes of the Latham raspberry as measured by non toxic dyes. Proc. Amer. Soc. Hort. Sci. 27(1930): 152-157. F. 1931.

Proc. Amer. Soc. Hort. Sci. (cont.)

Burrell, A. B. & MacDaniels, L. H.
Further pollination studies with the McIntosh apple in the Champlain valley of New York. Proc. Amer. Soc. Hort. Sci. 27(1930): 374-385. F.1931.

Carolus, R. L.
Effect of seasonal temperatures on chemical composition of kale (Brassica oleracea var. acephala). Proc. Amer. Soc. Hort. Sci. 27(1930): 502-508. F.1931.

Crane, H. L. & Finch, A. H.
Growth character, leaf size, and bud development in the pecan. Proc. Amer. Soc. Hort. Sci. 27(1930): 440-443. F.1931.

Edmond, J. B.
Seasonal variation in sex expression of certain cucumber varieties. Proc. Amer. Soc. Hort. Sci. 27(1930): 329-332. F.1931.

Fisher, D. F., Harley, C. P. & Brooks, C.
The influence of temperature on the development of watercore. Proc. Amer. Soc. Hort. Sci. 27 (1930): 276-280. F.1931.

Furr, J. R. & Magness, J. R.
Preliminary report on relation of soil moisture to stomatal activity and fruit growth of apples. Proc. Amer. Soc. Hort. Sci. 27(1930):212-218. F. 1931.

Haller, M. H.
The relation of the distance and direction of the fruit from the leaves to the size and composition of apples. Proc. Amer. Soc. Hort. Sci. 27 (1930): 63-68. F.1931.

Harding, P. L.
Relation of catalase activity to temperature, respiration and nitrogen fertilization of Grimes golden apples. Proc. Amer. Soc. Hort. Sci. 27(1930): 37-42. illus. F.1931.

Haut, I. C.
The photoperiodic response of the sweet pea. Proc. Amer. Soc. Hort. Sci. 27(1930): 314-318. F.1931.

Proc. Amer. Soc. Hort. Sci. (cont.)

Heinicke, A. J.
Composition of fruit-bud and spur tissues of wealthy apples under different conditions of nutrition. Proc. Amer. Soc. Hort. Sci. 27(1930): 190-198. F.1931.

Hopkins, E. F. & Gourley, J. H.
Nitrogen fertilization and the pectic materials in grapes. Proc. Amer. Soc. Hort. Sci. 27(1930): 164-169. F.1931.

Kimball, D. A.
A study of the progeny resulting from crossing certain apple varieties. Proc. Amer. Soc. Hort. Sci. 27(1930): 412-415. F.1931.

Klein, I.
Stimulative action of chemicals on the rooting of softwood and hardwood cuttings. Proc. Amer. Soc. Hort. Sci. 27(1930): 482-486. F.1931.

Knowlton, H. E. & Hoffman, M. B.
Nitrogen fertilization and the keeping quality of apples. Proc. Amer. Soc. Hort. Sci. 27(1930): 28-31. F.1931.

Krone, P. R. & Weinard, F. F.
Experiments with solutions of chlorine and sodium chloride on pot plants. Proc. Amer. Soc. Hort. Sci. 27(1930): 444-448. F.1931.

Lantz, H. L. & Edgecombe, S. W.
Apple breeding: some significant differences in the vigor and grade of cross-bred apple seedlings. Proc. Amer. Soc. Hort. Sci. 27(1930): 289-295. F.1931.

Latimer, L. P.
Pollination studies with the McIntosh apple in New Hampshire. Proc. Amer. Soc. Hort. Sci. 27 (1930): 386-396. F.1931.

Lilleland, O.
Growth study of the apricot fruit. Proc. Amer. Soc. Hort. Sci. 27(1930): 237-243. F.1931.

Proc. Amer. Soc. Hort. Sci. (cont.)

Lommel, W. E. & Greene, L.
Some effects of late spring frosts upon the viability of apple pollen. Proc. Amer. Soc. Hort. Sci. 27(1930): 404-405. F.1931.

McClintock, J. A.
The source of apple seed in relation to pests on seedlings. Proc. Amer. Soc. Hort. Sci. 27 (1930): 120-123. F.1931.

Magness, J. R. & Furr, J. R.
Stomatal activity in apple leaves. Proc. Amer. Soc. Hort. Sci. 27(1930): 207-211. F.1931.

Miller, J. C.
A study of mutations of the Porto Rico sweet potato. Proc. Amer. Soc. Hort. Sci. 27(1930): 343-346. F.1931.

Murneek, A. E.
Quantitative distribution and seasonal fluctuation of nitrogen in apple trees. Proc. Amer. Soc. Hort. Sci. 27(1930): 228-231. F.1931.

Nebel, B. R.
Recent findings in cytology of fruits (cytology of Pyrus III). Proc. Amer. Soc. Hort. Sci. 27 (1930): 406-410. illus. F.1931.

Overholser, E. L. & Overley, F. L.
Cherry pollination studies in Washington for 1930. Proc. Amer. Soc. Hort. Sci. 27(1930): 400-403. F.1931.

Overholser, E. L., Overley, F. L. & Claypool, L. L.
A survey of winter injury of fruit during 1930 in Washington. Proc. Amer. Soc. Hort. Sci. 27(1930): 253-258. F.1931.

Overley, F. L. & Overholser, E. L.
Beurre d'Anjou pollination studies in Washington for 1930. Proc. Amer. Soc. Hort. Sci. 27(1930): 397-399. F.1931.

Proc. Amer. Soc. Hort. Sci. (cont.)

Pearson, O. H.
Further observations on the type of sterility in Brassica oleracea var. capitata. Proc. Amer. Soc. Hort. Sci. 27(1930): 337-342. F.1931.

Plagge, H. H.
Do successive applications of nitrogenous fertilizers influence the development of physiological disorders of apples in cold storage? Proc. Amer. Soc. Hort. Sci. 27(1930): 23-27. F.1931.

Porter, D. R.
Some effects of inbreeding in watermelons. Proc. Amer. Soc. Hort. Sci. 27(1930): 554-559. F.1931.

Pridham, A. M. S. & Thompson, R. G.
Factors influencing the keeping quality of the gladiolus as a cut flower. Proc. Amer. Soc. Hort. Sci. 27(1930): 298-304. F.1931.

Richey, H. W. & Asbury, C. E.
Carbohydrate composition of Dunlap strawberry plants. Proc. Amer. Soc. Hort. Sci. 27(1930): 179-183. F.1931.

Sayre, C. B. & Nebel, B. R.
Some effects of different nutrient solutions on the structure, composition and quality of peas. Proc. Amer. Soc. Hort. Sci. 27(1930): 221-226. illus. F.1931.

Schilletter, J. C. & Richey, H. W.
Four years' study on the time of flower bud formation in the Dunlap strawberry. Proc. Amer. Soc. Hort. Sci. 27(1930): 175-178. F.1931.

Scott, G. W.
Correlation studies on the fruit of Cucumis melo L. Proc. Amer. Soc. Hort. Sci. 27(1930): 333-334. F.1931.

Scott, G. W.
Morphological and chemical studies on the globe artichoke, Cynara scolymus L. Proc. Amer. Soc. Hort. Sci. 27(1930): 356-359. F.1931.

Proc. Amer. Soc. Hort. Sci. (cont.)

Van Eseltine, G. P.
The taxonomic status of the cultivated apple. Proc. Amer. Soc. Hort. Sci. 27(1930): 430-434. F.1931.
Malus domestica.

Zimmerman, P. W., Crocker, W. & Hitchcock, A. E.
The response of plants to illuminating gas. Proc. Amer. Soc. Hort. Sci. 27(1930): 53-56. pl. F.1931.

Zimmerman, P. W. & Crocker, W.
Sulfur dioxide injury to plants. Proc. Amer. Soc. Hort. Sci. 27(1930): 51-52. F.1931.

Proc. Leeds Phil. & Lit. Soc. Sci. Sect.

Richmond, H. & Pearsall, W. H.
The absorption of ammonium and nitrate ions by certain plant tissues. Proc. Leeds Phil. & Lit. Soc. Sci. Sect. 2: 235-239. My.1931.

Proc. Nat. Acad. Sci.

Cooper, D. C. & Brink, R. A.
Cytological evidence for segmental interchange between non-homologous chromosomes in maize. Proc. Nat. Acad. Sci. 17:324-338. Je.15, 1931. no.6.

East, E. M.
Immunity to sugar cane mosaic acquired by the host. Proc. Nat. Acad. Sci. 17: 331-334. Je.15, 1931. no.6.

Progr. Rep. For. Res. India.

India. Imperial forest research institute.
Botany. Progr. Rep. For. Res. India. 1929/30: 108-112. 1931.
Including mycology.

Quart. Journ. Rubber Res. Inst. Malaya.

Beeley, F.
Test spraying experiments on young rubber plants. Quart. Journ. Rubber Res. Inst. Malaya 2: 214-225. Ap.1931. no.4.

Napper, R. P. N.
The effects of certain fungicides on the viability of Hevea buds. Quart. Journ. Rubber Res. Inst. Malaya 2: 192-213. Ap.1931. no.4.

Rev. Hort. Tunisie. (Tunis)

Milhau, J.

Historique du chrysanthème avec une notice necrologique sur le Capitaine Bernet, premier semeur et obtenteur de varietes du chrysanthème de l'Inde et de la Chine. Rev. Hort. Tunisie 29: 98-100. Je.15, 1931. no.275.

Rev. Path. Vég. & Entom. Agr. (Paris)

Arnaud, G. & Barthelet, J.

Une maladie nouvelle des pommes: le blotch fumeux (Gloeodes pomigena Colby). Rev. Path. Vég. & Entom. Agr. 18: 81-86. pl.iv. Mr./Ap. 1931. no.3/4.

Charpentier, C.

Plaies causées sur les arbres par les champignons. Traitement. Rev. Path. Vég. & Entom. Agr. 18: 114-115. Mr./Ap.1931 (Rec'd Je.1931) no.3/4.

Foex, E.

Une maladie des epinards. Rev. Path. Vég. & Entom. Agr. 18: 54-80. illus., pl.iii. Mr./Ap. 1931. no.3/4.

I. Etude générale par Et. Foex. II. Pythium ultimum Trow. organisme associé à la "maladie" de l'epinard et àune pourriture des rhizomes de l'igname de Chine. by F. Labrousse. III, Etude cytologique d'epinards parasités by J. Dufrénoy.

Foex, E. & Rosella, R.

Quelques observations sur le piétin du blé. Rev. Path. Vég. & Entom. Agr. 18: 133-142. Mr./Ap. 1931. no.3/4.

Fron, G. & Monchot, E.

Une maladie des epinards en 1930 (cont.) Rev. Path. Vég. & Entom. Agr. 18: 45-53. illus. Mr./Ap.1931. no.3/4.

Gard, M.

Sur un traitement du Monilia du prunier d'ente en 1930. Rev. Path. Vég. & Entom. Agr. 18: 112-114. Mr./Ap.1931. no.3/4.

Guyot, A. L.

De quelques balais de sorcière nouveaux ou peu connus. Rev. Path. Vég. & Entom. Agr. 18: 142-151. pl.vi-vii. Mr./Ap.1931. no.3/4.

Rev. Path. Vég. & Entom. Agr. (cont.)
Viennot, G.
Pseudoperonospora et Peronospora des orties.
Rev. Path. Vég. & Entom. Agr. 18: 151-153.
pl. viii. Mr./Ap.1931. no.3/4.
Pseudoperonospora urticae, Peronospora debaryi.

Rhodora (Boston)
Billington, C.
Coronilla varia in Michigan. Rhodora 33: 163-164. Jl. 1931. no.391.

Knowlton, C. H.
Solidago and Aster in Washington county, Maine. Rhodora 33: 159-162. Jl.1931. no.391.

Littlefield, E. W.
A new station for Calluna. Rhodora 33: 162-163. Jl.1931. no.391.
Franklin Co., New York.

Robbins, C. A. & Blake, S. F.
Cladonia in the District of Columbia and vicinity. Rhodora 33: 145-159. pl.210-212. Jl.1931. no.391.

Science (Lancaster, Pa.)
Butler, B. T.
Twisted trunks of apple trees. Science 73: 674. Je.19,1931. no.1903.

Waldron, L. R.
Insects as pollen carriers. Science 73: 703. Je26, 1931. no.1904.

Scott. For. Journ.
Balfour, F. R. S.
Ernest Henry Wilson. Scott. For. Journ. 45: 116-121. Mr. 1931. no.1.

So. Afr. Fruit Grower (Cape Town)
[Dr. Marloth] So. Afr. Fruit grow. 17: 89. port. My. 1931.
Notice of death with some biographical data.

Torreya.

Bogusch, E. R.
A new variety of Koeberlinia. Torreya 31: 73-74. illus. My./Je. 1931. no.3.
K. spinosa v. verniflora.

Crocker, W.
Gas injury to plants. Torreya 31: 95-97. My./Je. 1931. no.3.
Ethylene & illuminating gas.

McLean, F. T.
Inheritance and chromosome number in the gladiolus. Torreya. 31: 65-70. My./Je. 1931. no.3.

Reade, J. M.
Vaccinium ashei sp.nov. Torreya 31: 71-72. My./Je. 1931. no.3.

Trans. Nat. Hist. Soc. Formosa.

Kanehira, R.
Biography of Mr. Ernest H. Wilson. Trans. Nat. Hist. Soc. Formosa 22: 67-71. port. Ap. 1931. no.113.
Japanese.

Sasaki, S.
Miscellaneous contributions to the flora of Formosa VIII. Trans. Nat. Hist. Soc. Formosa 22: 112-118. illus. Ap. 1931. no.113.
Melastoma kudoi, Lycopodium arakii, n.spp. (Descriptions in English)

Tanaka, T.
Epochs in the history of pre-Linnean botany. Trans. Nat. Hist. Soc. Formosa 22: 99-112. Ap.1931. no.113.
Japanese with English summary.

Trudy Mleevskoi Sadovo-Ogor. Opytn. Stan. (Bull. Mleyev Hort. Exp. Stat.)

Borisiuk, N. A.
Materialy k voprosu o transpiratsii plodovykh derev'ev (Materials relating to the transpiration of fruit trees). Trudy Mleevsk. Sadovo-Ogor. Opytn. Stan. (Bull. Mleyev Hort. Exp. Stat.) no.41. 127 p. 1931.
Russian with English summary.

U. S. Dept. Agr. Plant Dis. Rep.

Godfrey, G. H.
Tylenchus dipsaci on Hypochaeris radicata in Hawaii. U. S. Dept. Agr. Plant Dis. Rep. 15: 59-60. Je.15, 1931. no.6.
[Mimeographed]

Haskell, R. J.
Oat smut in the south Atlantic states. U. S. Dept. Agr. Plant Dis. Rep. 15: 51. Je.15,1931. no.6.

Haskell, R. J. & Boerner, E. G.
Relation of stinking smut of wheat in the field to smuttiness of threshed grain. U. S. Dept. Agr. Plant Dis. Rep. suppl. 79. 6 p. 2 pl. Je.1,1931.

Ramsey, G. B.
Oospore stage of Peronospora viciae on peas. U. S. Dept. Agr. Plant Dis. Rep. 15: 52-53. Je.15, 1931. no.6.

Steiner, G.
Strawberry dwarf (Aphelenchus fragariae) found in Massachusetts. U. S. Dept. Agr. Plant Dis. Rep. 15: 60. Je.15, 1931. no.6.

Taubenhaus, J. J. & Ezekiel, W. N.
Late blight on tomatoes in the lower Rio Grande valley of Texas. U. S. Dept. Agr. Plant Dis. Rep. 15: 53-54. Je.15, 1931. no.6.

Thorne, G.
Aphelenchus helophilus, a new parasite of Lilium sargentiae. U. S. Dept. Agr. Plant Dis. Rep. 15: 60-61. Je.15, 1931. no.6.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Ahmed, M. R.
Versuche über beziehungen zwischen blattgrüngehalt und stofferzeugung einiger kulturpflanzen. Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 311-347. Je.3, 1931. no.3.

Heinisch, O.
Die ackerdistel. Cirsium arvense (L.) Scop. Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 348-420. illus. Je.3, 1931. no.3.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (cont.)

Schieck, W.
Einfluss von kalium auf assimilation und transpiration von sommergerste. Wiss. Arch. Landw. Abt. A. Pflanzenbau 6: 421-464. illus. Je.3, 1931. no.3.

Yearbk. Hort. Soc. N. Y.

Guterman, C. E. F.
Diseases of lilies. Yearbk. Hort. Soc. N. Y. 1930: 51-102. illus. 1931.

Purdy, C.
California flowers that can be grown in the East. Yearbk. Hort. Soc. N. Y. 1930: 103-108. 1931.
Abstract of lecture.

Zeitschr. Parasitenk.

Wollenweber, H. W.
Fusarium-monographie. Fungi parasitici et saprophytici. Zeitschr. Parasitenk. 3: 269-516. illus. My.22, 1931. no.3.

Der Züchter (Berlin)

Becker-Dillingen, J.
Abriss über die leistung der deutschen zucker- und futterrübenzüchter. Der Züchter 3: 172-181. illus. Je.1931. no.6.

Brieger, F.
Hans Kniep. Der Züchter 3: 152-153. port. My.1931. no.5.

Delaunay, L. N.
Resultate eines dreijährigen röntgenversuchs mit weizen. Der Züchter 3: 129-137. illus. My.1931. no.5.

Klapp, E.
Deutsche kartoffelzüchtung in ihren wichtigsten schöpfungen. Der Züchter 3: 162-171. illus. Je. 1931. no.6.

Lemmerzahl, J.
Zur methodik der krebsprüfung von kartoffelstämmen. Der Züchter 3: 138-152. illus. My. 1931. no.5.

State Publications.

Ball, W. S.
Germination tests on puncture vine. Month. Bull. Dept. Agr. Calif. 20: 316-318. illus. My.1931. no.5.

Goss, W. L.
Viability of seed as shown by laboratory tests in soil. Month. Bull. Dept. Agr. Calif. 20: 319-321. illus. My.1931. no.5.

Exper. Stat. Publ.

Alabama agricultural experiment station.
Botany and plant pathology. In its Ann. Rep. 41(1929/30): 29-30. [1931]
W. A. Gardner botanist.

Durrell, L. W.
Report of the botanist. Ann. Rep. Colorado Agr. Exp. Stat. 43(1929/30): 20-25. [1931?]

Tisdale, W. B.
Plant pathology, 1929/30: 90-107. [1931]

Kotila, J. E.
Experiments with the tuber index method of controlling virus diseases of potatoes. Michigan Agr. Exp. Stat. Tech. Bull. 117. 26 p. illus. My.1931.

Michigan agricultural experiment station.
Botany. In its Bienn. Rep. 1928/9-29/30. p. 12-18. [1931]
E. A. Bessey botanist.

New Jersey agricultural experiment station - Dept. of plant pathology.
Leaf mold experiments with rhododendrons. Its Nursery Dis. Notes v.3, no.12. 4 p. Je.1931.
Also in Flor. Exch. 77(9): 23. Je.27,1931.

Childs, L. & Brown, G. G.
A study of tree stocks in relation to winter injury and its prevention. Oregon Agr. Exp. Stat. Circ. 103. 15 p. illus. My.1931.

Exper. Stat. Publ. (cont.)

Taubenhaus, J. J. & Ezekiel, W. N.
Cotton root-rot and its control. Texas Agr. Exp. Stat. Bull. 423. 39 p. illus. Ap.1931 (Rec'd Je.)

Tiant, J. S.
Bacterial wilt of alfalfa. Wyoming Agr. Exp. Stat. Bull. 177. 20 p. illus. Ap.1931 (Rec'd Jl.)

New Books.

American nature association
The nature almanac. A handbook of nature education. Washington, American nature association, 1930.

Brel, J.J.M.R.
L'artichaut (Cynara scolymus). Paris, A. Legrand, [1930]

Bruttini, A.
Dictionnaire de sylviculture. Paris, P. Lechevalier, 1930 (Encylopedie économique de sylviculture IV).

Carver, G. W.
Some peanut diseases. Columbus, Ga., Tom Huston peanut company, 1931.
Typewritten.

Doi, Y.
Florula satsumensis, sive enumeratio plantarum in provincia Satsuma sponte nascentium. v.1, pt.2-4. Kagoshima, 1927-1929.

Fassett, N. C.
Spring flora of Wisconsin. A manual of plants growing without cultivation, and flowering before June 15. Madison, Democrat printing co., 1931.

Grout, A. J.
Moss flora of North America, north of Mexico. v.3, pt. 2. Staten Island, N. Y., the author, Je.1931.

Higgins, E. B.
Our native cacti. New York, A. T. DeLaMare Co., 1931.

New Books. (cont.)

Itô, T.
Taiwan shokubutsu dzusetsu (Illustrations of Formosan plants) & Zoku (supplement, 1927-28.
Japanese.
Supplement: Pteridophytes.

Komarov, V. L.
Flora poluostrova Kamchatki (Flora peninsulae Kamtschatka) II. Leningrad, Akademiia nauk, 1929.
Russian.

McCully, A.
American alpines in the garden. N. Y., Macmillan, 1931.

Marshall, M. I.
The effect of illuminating gas and its constituents on plants. [Washington, D. C., 1931]
A select bibliography.

Merriman, P. R.
Flora of Richmond and vicinity (exclusive of grasses, sedges and trees). Richmond, 1930.

Missouri botanical garden.
Proceedings of the celebration of the three hundredth anniversary of the first recognized use of cinchona... St. Louis, 1931.

Morris, R. T.
Nut growing. N. Y., Macmillan, 1931.

Ogata, M.
Iconos filicum Japoniae. v.1-3. Tokyo, Sansyusya, 1928-30.

Shimek, B.
Keys to the woody plants of Iowa. 2d.ed., rev. Iowa City, 1930.

Silva Tarouca, E. & Schneider, C.
Unsere freiland-laubgehölze... 3., gänzlich umgearb. und verm.aufl. Wien, Hölder-Pichler-Tempsky; Leipzig, G. Freytag, [1931] (Kulturhandbücher für gartenfreunde 2.bd.)

New Books (cont.)

Strausbaugh, P. D., Core, E. L. & Ammons, N.
Common seed plants of the mid-Appalachian region. Morgantown, Morgantown printing & binding co., 1931.

Trees and plants of the Bermudas. Hamilton, The Bermuda book stores, [1931]

Wulff, E. V.
Flora kryma (Flora taurica) v.1, fasc. 3, Monocotyledoneae. Leningrad, 1930.
Russian with some Latin diagnosis (Tulipa monticola, Orchis wanjkovi n.spp.)

Yamakawa, M.
Kozan shokobutsu [Alpine plants] 1929.
Japanese.

Corrections.

V.13, no.7, p. 17.
The note under Yanovsky, E. & Kingsbury is incorrect as it lists the old and not the new sources of inulin, the latter are Quamassia quamash, Allium nuttallii & Balsamorhiza sagittata.

v.13, no.9, p. 10-11.
Under Bull. Agr. Congo Belge the vol. no. should be 21 instead of 31.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY
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★ AUG 4 1931 ★
U.S. Department of Agriculture

Vol. 13, no. 14. July 5-18, 1931.

Agr. & Live-stock, India. (Calcutta)
Roy, S. C.
A preliminary note on the occurrence of sepaloidy and sterility in til (Sesamum indicum).
Agr. & Live-stock, India 1: 282-285. My.1931. no.3.

Agr. Ferrarese.
Minerbi, G.
Un' infezione crittogamica del frumento.
Agr. Ferrarese 34:91-92. F.28,1931. no.4.
Pythium.

Agr. Gaz. N.S.W. (Sydney)
Darnell-Smith, G.P.
Possible relationship of crown gall in plants to cancer. Agr. Gaz. N.S.W. 42: 485-487. Je.1, 1931. No.6.

Macindoe, S.L.
Stem rust of wheat. Observations at Glen Innes during the 1930-31 season. Agr. Gaz. N.S.W. 42: 475-484. Je.1, 1931. no.6.

Agron. Colon. (Paris)
Chalot, C.
Les graminées à "palma rosa" et à "ginger-grass". Agron. Colon. 20: 142-148. illus. My. 1931. no.161.
Cymbopogon martini var. motia; C.martini var. sofia.

Chalot, C.
Guillaume Capus. (1857-1931). Agron. Colon. 20: 158-159. My.1931. no.161.

Amer. Forests (Washington)
Graff, P. V.
The liberty tree. Amer. Forests 37:416. illus. Jl. 1931. no.7.
Elm onshores of Pine Creek, Clinton Co., Pa. under which famous Tiadaghton Creek Declaration of Independence was signed.

Amer. Fruit Grow. (Chicago)

Niles, P. A.
Common sense in controlling blister canker. Amer. Fruit Grow. 51(7): 6, 13. illus. Jl. 1931.
Apple.

Amer. Journ. Bot.

Karling, J. S.
Studies in the Chytridiales V. A further study of species of the genus Entophlyctis. Amer. Journ. Bot. 18: 443-464. illus. Je.1931. no.5.

Lindstrom, E.W. & Koos, K.
Cyto-genetic investigations of a haploid tomato and its diploid and tetraploid progeny. Amer. Journ. Bot. 18: 398-410. pl. xxxiii-xxxiv. Je. 1931. no.6.

McNair, J. B.
Some properties of alkaloids in relation to climate of habitat. Amer. Journ. Bot. 18: 416-423. Je. 1931. no.6.

Nelson, A.
Rocky Mountain herbarium studies. I- Amer. Journ. Bot. 18: 431-442. Je. 1931. no.6.

Rigg, G. B. & Harrar, E. S.
The root systems of trees growing in sphagnum. Amer. Journ. Bot. 18: 391-397. illus. Je.1931. no.6.

Schaffner, J. H.
The fluctuation curve of sex reversal in staminate hemp plants induced by photoperiodicity. Amer. Journ.Bot. 18: 424-430. Je. 1931. no.6.

Sideris, C. P. & Paxton, G. E.
Pathological, histological, and symptomatological studies on pineapple root rots. Amer. Journ. Bot. 18: 465-498. illus. Je.1931. no.6.

Swallen, J. R.
The grass genus Amphibromus. Amer. Journ. Bot. 18: 411-415. Je.1931. no.6.
A. recurvatus,n.sp.

Amer. Nat. (Lancaster, Pa.)
Clauson, R. E.
Inheritance in Nicotiana tabacum XI. The fluted assemblage. Amer. Nat. 65: 316-331. Jl./Ag. 1931. no.699.

Harland, S. C. & Attock, O. S.
Intergeneric hybrids between Gossypium and Thurberia. Amer. Nat. 65: 380-382. Jl./Ag. 1931. no.699.

Amer.Nurseryn. (Rochester, N.Y.)
U.S. plant patent law discussed in Berlin. Amer. Nurseryn. 54: 28. Jl.15, 1931. no.2.

Anal. Inst. Biol. Univ. Nac. Mexico.
Bravo, H.
Cactaceas del valle de Oaxaca. Anal. Inst. Biol. Univ. Nac. Mexico 2: 117-126. illus. 1931. no.2.
Neomammillaria schmollii, sp.nov.

Bravo, H.
Contribucion al conocimiento de las cactaceas de Mexico. Cuatro especies nuevas del genero Neomammillaria. Anal. Inst. Biol. Univ. Nac. Mexico 2: 127-131. illus. 1931. no.2.
Neomammillaria ochoterenae, N. schmolii, N. patonii, N. hamiltonhoytea.

Ann. Ecole Nat. Agr. Montpellier.
Kuhnholtz-Lordat, G.
L'association à Rosa pimpinellifolia L. et Ephedra distachya L. de la presqu'île de Quiberon (Morbihan). Ann. Ecole Nat. Agr. Montpellier n.s. 20: 281-301. illus. [1931] no.4.

Lagatu, H. & Maume, L.
Le diagnostic foliaire de la pomme de terre. Ann. Ecole Nat. Agr. Montpellier n.s., 20: 219-281. 4 pl. on 2. [1931] no.4.

Atti R.Accad. Naz Lincei VI, Rend. Cl. Sci. Fis., Mat. e. Nat. (Rome)
Colla, S.
Sui gas contenuti in alcune alghe brune. Atti R. Accad. Naz. Lincei VI, Rend, Cl. Sci. Fis., Mat. e Nat. 13: 232-234. F.1, 1931. no.3.

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e. Nat. (cont.)

Colla, S.
Sui gas contenuti in "Valonia utricularis (Roth) Ag. Atti R. Accad. Naz.Lincei VI, Rend. Cl. Sci.,Fis., Mat. e Nat. 13: 149-153. Ja.18, 1931. no.2.

Pirrone, F.
Azione delle alghe marine sulla velocità della fermentazione alcoolica di soluzioni zuccherine. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci., Fis., Mat. e Nat. 13: 137-140. Ja.18, 1931. no.2.

Principi, P.
Florula quaternaria di Magliano de Marsi sull' orlo della conca fucense. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 13: 211-212. F.1, 1931. no.3.

Sanzo, L. & Pirrone, F.
Azione dell'acqua marina sulla fermentazione alcoolica. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 13: 140-143. Ja.18, 1931. no.2.

Bergcultures (Batavia, Java)

Pfältzer, A.
Een en ander over akar toeba (Derris elliptica). Bergcultures 5: 623-625. Je.6, 1931. no.23.

Bergens Mus. Årbok. Naturv. Rekke.

Apold, J. & Nordhagen, R.
Neue oder seltene adventivpflanzen aus Hardanger. Bergens Mus. Årbok 1930 Naturv. Rekke no.3. 10 p. 1931. no.2.

Nordhagen, R.
En botanisk ekskursjon i Eikisdalen. Bergens Mus. Årbok 1930 Naturv. Rekke no.8. 35 p. illus. 1931. no.2.

Biochem. Zeitschr. (Berlin)

Hjorth-Hansen, S.
Zur relation zwischen bodenreaktion und chemischer zusammensetzung des hafers (Avena sativa). Orientierende untersuchungen mit goldregenhafer. Biochem. Zeitschr. 235: 358-366. Je.19,1931. no.4/6.

Biochem. Zeitschr. (cont.)

Schroeder, H. & Herrmann, F.
Ueber die kohlenhydrate und den kohlenhydratstoffwechsel der laubblätter. I. Die zunahme des saccharosegehaltes beim welken. Biochem. Zeitschr. 235: 407-424. Je.19, 1931. no.4/6.

Weinmann, F.
Zur kenntnis pflanzlicher gummiarten. Biochem. Zeitschr. 236: 87-98. Je.25,1931. no.1/3.

Bot. Not. (Lund,Sweden)

Engeström, T. & Erhardt, R. Runmarö
Från holmarna kring Bot. Not. 1931: 239-268. illus. no.4.

Lindström, A. A.
Om släktet Rosa. III. Bot. Not. 1931: 297-307. no.4.

Lundberg, F.
Beiträge zur kenntnis der algenflora von Schweden. I. Ueber das phytoplankton einiger seen in Dalarne. Bot. Not. 1931: 269-296. illus. no.4.

Sylvén, N.
Bidrag till Skånes flora. 2-3. Bot. Not. 1931: 207-212, 308-312. no.3-4.
2. Nya fyndlokaler för adventivarter inom Skånefloran. 3. Nya hybridlokaler inom Skanofloran.

Bull. Agence Gén. Colon. France (Paris)

Heim de Balsac, F. & Others.
Valeur papetière des tiges de cotonnier. Bull. Agence Gén. Colon. France 24: 716-734. 4 pl. (1 fold.) My. 1931. no.267.

Bull. Amer. Iris Soc.

Denis, F.
Iris tingitana. Grenier and Godron. Bull. Amer. Iris Soc. 40: 60-61. Jl. 1931.

Reed, G. M.
The iris of Japan. Bull. Amer. Iris Soc. 40: 3-48. illus. Jl.1931.

Bull. Econ. Indochine. Sect. B.

Lecomte, H.

Liste d'essences forestières du Cambodge déterminées. Bull. Econ. Indochine Sect. B. 34: 204B-207B. Mr. 1931.

Bull. Mens. Soc. Nat. Hort. France (Paris)

Chevalier, C.

Bromeliacees inedites. Bull. Mens. Soc. Nat. Hort. France. V,4: 209-217. illus. My. 1931.

Bilbergia species maxima, x.Vrieslandsia Professeur Bouillenne.

Bull. Rubber Grow. Assoc.

Pfaltzer, A.

Experiments and observations in connection with the control of Oidium in Hevea brasiliensis during 1930. Bull. Rubber Grow. Assoc. 13: 294-295. Je. 1931. no.6.

Tempany, H. A.

Treatment of mouldy rot. Bull. Rubber Grow. Assoc. 13: 288-289. Je. 1931. no.6.

Bull. Soc. Centr. For. Belgique (Bruxelles)

Giot, R.

Considérations sur la flore de la haute campine. Bull. Soc. Centr. For. Belgique. 38: 183-196. Je./Jl. 1931. no.5/6.

Bull. Torr. Club.

Brown, C. A.

Plants observed on an excursion to Grand Isle, Louisiana. Bull. Torr. Club. 57: 509-513. O. 1930 (Rec'd Jl. 1931) no.7.

Emmons, C. W.

Cicinnobolus cesatii, a study in host-parasite relationships. Bull. Torr. Club 57: 421-441. pl.24-33. O.1930(Rec'd Jl.1931) no.7.

Kolk, J. A.

Relation of host and pathogen in the oat smut, Ustilago avenae. Bull. Torr. Club 57: 443-507. illus., pl.27-30. O.1930 (Rec'd Jl.1931) no.7.

Canada Dept. Agr. Pamph.
MacLeod, D. J. & Hurst, R. R.
Powdery and common scab of the potato. Canada Dept. Agr. Pamph. n.s., 134. 26 p. illus. 1931.
Studies in potato diseases IV.

Canad. Journ. Res. (Ottawa)
Thompson, W. P.
Chromosome homologies in wheat, rye, and Aegilops. Canad. Journ. Res. 4: 625-634. Je. 1931. no.6.

Cattleman. (Fort Worth, Texas)
Cory, V. L.
Bitterweed occurs abundantly on Edwards Plateau. Cattleman 18(2): 17-18. Jl.1931.
Actinea odorata.

China Journ. (Shanghai)
Skvortzow, B. W.
Notes on trees and shrubs of northern Manchuria. 4. Genus Pyrus L. China Journ. 15: 329-331. illus. je.1931. no.6.

Compt. Rend. Acad. Agr. France (Paris)
Vincent, V.
Presence des chlorures de calcium et de magnesium dans les plantes. Compt. Rend. Acad. Agr. France 17: 632-635. Je.3, 1931. no.18.

Compt. Rend. Acad. Sci. Paris.
Choucroun, Mlle.
Sur l'hypothèse du rayonnement mitogénétique agissant sur la multiplication des bactéries. Compt. Rend. Acad. Sci. Paris 192: 1674-1677. Je.22, 1931. no.25.

Compt. Rend. Soc. Biol. Paris.
Lenoir, M.
Observations d'une forme de Cystopus candidus (Pers.) Lév. parasite sur le Cakile maritima Scop. Compt. Rend. Soc. Biol. Paris 107: 723-724. Je.19, 1931. no.20.

Contr. Boyce Thompson Inst. Plant Res.

Denny, F. E.
The effect of potassium cyanide upon the amylase activity of potato juice. Contr. Boyce Thompson Inst. Plant Res. 3: 297-207. Je.1931. no.2.

Denny, F. E.
The effect of thiocyanates upon amylase activity. I. Potato amylase. Contr. Boyce Thompson Inst. Plant Res. 3: 277-285. Je.1931. no.2.

Eckerson, S. H.
Influence of phosphorus deficiency on metabolism of the tomato (Lycopersicum esculentum Mill.) Contr. Boyce Thompson Inst. Plant Res. 3: 197-217. illus., 2 pl. Je. 1931. no.2.

Holmes, F. O.
Local lesions of mosaic in Nicotiana tabacum L. Contr. Boyce Thompson Inst. Plant Res. 3: 163-172. illus. Je.1931. no.2.

Lojkin, M. & Vinson, C. G.
Effect of enzymes upon the infectivity of the virus of tobacco mosaic. Contr. Boyce Thompson Inst. Plant Res. 3: 147-162. Je. 1931. no.2.

Lojkin, M.
Some effects of ultraviolet rays on the vitamin D content of plants as compared with the direct irradiation of the animal. Contr. Boyce Thompson Inst. Plant Res. 3: 245-265. illus. Je.1931. no.2.

McCool, M.M. & Youden, W.J.
The pH and the phosphorus content of the expressed liquids from soils and plant tissues. Contr. Boyce Thompson Inst. Plant Res. 3: 267-275. illus. Je.1931. no.2.

Miller, L. P.
The influence of sulphur compounds in breaking the dormancy of potato tubers. Preliminary report. Contr. Boyce Thompson Inst. Plant Res. 3: 309-312. illus. Je. 1931. no.2.

Contr. Boyce Thompson Inst. Plant. Res. (cont.)
Pfeiffer, N. E.
A morphological study of gladiolus.
Contr. Boyce Thompson Inst. Plant Res. 3: 173-195, incl. 3 pl. illus. Je. 1931. no.2.

Thornton, N. C.
The effect of carbon dioxide on fruits and vegetables in storage. Contr. Boyce Thompson Inst. Plant Res. 3: 219-244. illus. Je.1931. no.2.

Country Life. (London)
Cox, E. H. M.
Dwarf rhododendrons. Country Life 69: 825-826. illus. Je.27, 1931. no.1797.

Denkschr. Bayer. Bot. Ges. Regensb.
Killermann, S.
Pilze aus Bayern.Kritische studien, besonders zu M. Britzelmayr; standortsangaben u.(kurze) bestimmungstabellen. IV. teil. Leucosporae 1. abt. [und] Nachträge (3) Denkschr. Bayer. Bot. Ges. Regensb. 18(n.f., 12): 1-127. pl. xii-xvii. 1931.

Mayer, A.
Diagnosen neuer rubusbastarde und-unterarten. Denkschr. Bayer. Bot. Ges. Regensb. 18(n.f.,12): 128-160, 1931.

Desert (Pasadena)
Walter, E.
Sedum. III. (concl.) Desert (Pasadena) 3: 30-31. illus. Jl.1931. no.3.

Empire Cotton Grow. Rev. (London)
Massey, R. E.
Studies on blackarm disease of cotton. II. Empire Cotton Grow. Rev. 8: 187-213. 4 pl. on 2. Jl. 1931. no.3.

Farming South Africa (Pretoria)
Phillips, E. P.
Tung oil. Farming South Africa 6: 93-95. illus. Je.1931. no.63.

Wager, V. A.
The Rhizoctonia disease of potatoes. Farming South Africa 6: 97-98. illus. Je. 1931. no.63.

Flor. Exch. (N.Y.)
The first Chinese rhododendron. Flor. Exch. 77(10): 23,31. illus. Jl.4, 1931.
Rhododendron fortunei.

Flor. Rev. (Chicago)
Laurie, A.
Electric light in forcing. Flor. Rev. 68(1754): 25-26. illus. Jl.9,1931.

Calla root rot. Flor. Rev. 68(1754): 24-25. Jl.9,1931. no.1754.
?Caused by improper drying off.

Forstw. Centralbl. (Berlin)
Fabricius, L.
Die samenkeimung von Sorbus aucuparia L. Forstw. Centralbl. 53: 413-418. Je.15, 1931. no.12.

Fortschr. Landw. (Vienna)
Reckendorfer, P.
Einfluss des schwefeldioxydes auf die eiweisstoffe des pflanzenorganismus. Fortschr. Landw. 6: 435-438. illus. Jl.1, 1931. no.13.

Rudolph,
Wert und notwendigkeit der kornblumenbekämpfung. Fortschr. Landw. 6: 423-424. Jl.1, 1931. no.13.

Gard. Chron. (London)
Albert Burrage. Gard. Chron. III, 90: 20. Jl.4,1931. no.2323.
Notice of death.

Brown, N. E.
Mesembryanthemum. Conicosia. (cont.) Gard. Chron. III, 90: 13-14. Jl,4, 1931. no.2323.

Dr. T. F. Chipp. Gard. Chron. III, 90: 20. Jl.4, 1931. no.2323.
Notice of death.

V.13, no.14, p.11.

Gard. Chron. (cont.)

Friend, H.
Horticulture in relation to commerce. X. Round the fruit market: nuts. Gard. Chron. III, 89: 490-491. Je.27, 1931. no.2322.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 89: 489. illus. Je.27, 1931. no. 2322.

Tutin, F.
Two new species of Gladiolus. Gard. Chron. III, 90: 8-9. illus. Jl.4, 1931. no.2323.
G.modestus, G. hibernus.

Ward, F.K.
The Roosevelt expedition in French Indo-China. XVIII. Singapore botanic garden. Gard. Chron. III, 90: 10-11. illus. Jl.4, 1931. no.2323.

Gartenbauwiss. (Berlin)

Woycicki, Stanislaw.
Einfluss des winterfrostes 1928/29 auf holz und rinde unserer obstbäume. Gartenbauwiss. 5: 48-54. illus. Je.16, 1931. no.1.

Gartenw. (Berlin)

Reusrath, T.
Betrachtungen über die braunfleckenkrankheit der tomaten. Gartenw. 35: 354. Je.26, 1931. no.26.

Genetics

Emerson, S.
The inheritance of certain characters in Oenothera hybrids of different chromosome configurations. Genetics 16: 325-348, incl. 4 pl. Jl. 1931. no.4.

Karper, R. E. & Conner, A. B.
Inheritance of chlorophyll characters in sorghum. Genetics 16: 291-308. Jl.1931. no.4.

Thompson, W. P.
Cytology and genetics of crosses between fourteen- and seven-chromosome species of wheat. Genetics 16: 309-324. illus. Jl. 1931. no.4.

Hadar (Jaffa)

Reichert, I. & Littauer, F.
The causal agent of gummosis disease in Palestine. Hadar (Palestine Citrogr.) 4: 145-150. illus. Je./Jl. 1931. no.6/7.
Phytophthora citrophthora.

Tolkowsky, S.
Citrus fruits and family names. Hadar (Palestine Citrogr.) 4: 142-144. Je./Jl.1931. no.6/7.

Hawaiian Plant. Rec. (Honolulu)

Das, U. K.
Cane breeding in Coimbatore. Hawaiian Plant. Rec. 35: 97-120. illus. Ap.1931. no.2.

Das, U. K.
Root studies at Coimbatore. Hawaiian Plant. Rec. 35: 123-124. 4 pl. on 2. Ap. 1931. no.2.

Martin, J. P.
Diseases, malformations and blemishes of sugar cane in Hawaii. Hawaiian Plant. Rec. 35: 129-134. Ap.1931. no.2.

Hedwigia (Dresden)

Frey, E.
Weitere beiträge zur kenntnis der umbilicariaceen. Hedwigia 71: 94-119. illus. My.1931. no.1/2.

Gyelnik, V.
Lichenologische substratstudien. (Squamaria radiosa-gruppe). Hedwigia 71: 120-132. My. 1931. no.1/2.

Györffy, L.
Bryologische seltenheiten XIV. Hedwigia 71: 133-138. illus., pl. iv. My.1931. no.1/2.

Huber-Pestalozzi, G.
Infektion einer Mougeotia-population durch Micromyces zygogonii Dangeard an einem alpinen standort. Hedwigia 71: 88-93. pl. iii. My. 1931. no.1/2.

Hedwigia (cont.)

Reimers, H.
Beiträge zur moosflora Chinas I. Hedwigia 71: 1-77. illus. My.1931. no.1/2.

Schiffner, V.
Neue und bemerkenswerte meeresalgen. Hedwigia 71: 139-160. illus. My.1931. no.1/2.

Skuja, H.
Einiges zur kenntnis der brasilianischen Batrachospermen. Hedwigia 71: 78-87. pl.i-ii. My. 1931. no.1/2.
B. procarpum, B. orthostichum, n.spp.

Helvetica Chim. Acta (Basel)

Euler, H. v., Demole, V., Weinhagen, A. & Karrer, P.
Weitere beobachtungen über die beziehungen des wachstumsfaktors zum carotin. Helvetica Chim. Acta 14: 831-833. 1931. no.4.

Karrer, P. & others.
Pflanzenfarbstoffe XXXI. Zur konstitution der zweiten carotinform (α-Carotin) XXXII. Notiz über die zusammensetzung des physaliens. XXXIII. Zur konstitution der xanthophylle. XXXIV. Dihydrolycopin. Helvetica Chim. Acta. 14: 833-838, 834-845, 845-846. 1931. no.4.
Ragnar Nilsson joint author, XXXIII; R. Morf, B. Pieper joint authors.

Journ. Agr. Res. (Washington)

King, C. J., Loomis, H. F. & Hope, C.
Studies on sclerotia and mycelial strands of the cotton root-rot fungus. Journ. Agr. Res. 42: 827-840. illus. Je.15, 1931 (Jl.11) no.12.

Journ. Amer. Chem. Soc.

Moore, M. B. & Moore, E. E.
Studies on pollen and pollen extracts. VII. A glucoside from certain grass pollens [dactylin]. Journ. Amer. Chem. Soc. 53: 2744-2746. Jl.1931. no.7.

Journ. Bot. (London)

Armitage, E.
Some bryophytes of the Azores. Journ. Bot. 69: 75-76. Mr.1931. no.819.

Britten, J.
Thomas Andrew Knight (1759-1838). Journ. Bot. 69:77. Mr. 1931. no.819.
Note found among mss. for new ed. of Biographical index of British and Irish botanists, now in press.

Lousley, J. E.
The Schoenoplectus group of the genus Scirpus in Britain. Journ. Bot. 69: 151-163. Je.1931. no.822.

Mr. John Gossweiler's plants from Angola and Portuguese Congo. Dictyledones: Gamopetalae. (cont.) Journ. Bot. 69(suppl.): 157-160. illus. Je. 1931. no.822.
Benguellia gen. nov. (B. lanceolata)

Moss, C. E.
Pleiosepalum, a new genus of Caryophyllaceae. Journ. Bot. 69: 65-67. pl. 596. Mr.1931. no.819.
P. mosambicinum.

Petch, T.
The bread mould, Monilia sitophila (Mont.) Sacc. Journ. Bot. 69: 67-69. Mr.1931. no.819.

Rendle, A. B.
Dr. Rudolph Marloth. Journ. Bot. 69: 173-174. Je. 1931. no.822.

Rendle, A. B.
Prof. C. H. Ostenfeld (1873-1931). Journ. Bot. 69: 79-80. Mr.1931. no.819.

Robyns, W.
Vangueriae gossweilerianae. Journ. Bot. 69: 165-172. Je.1931. no.822.
New species in Fadogia.

Skvortzow, B. W.
Phytoplankton from Siberia. III. From the Amur river. Journ. Bot. 69: 69-72. illus. Mr.1931. no.819.

Journ. Bot. (cont.)

Stearn, W. T.
Notes from the university herbarium, Cambridge. I. A new Rhodesian Kalanchoe. [K. aleurodes]. Journ. Bot. 69: 164-165. Je.1931. no.822.

Stephenson, T.
Dactylorchids of North Africa. Journ. Bot. 69: 145-150. illus., pl. 597. Je. 1931. no.822.

Thompson, A.
New vice-county records for north country mosses. Journ. Bot. 69: 163-164. Je.1931. no.822.

Tutin, T. G.
Two Madeiran grasses. Journ. Bot. 69: 80-81. Mr.1931. no.819.
Imperata cylindrica, Agrostis olivetorum.

Watson, W.
Thomas Hebden (1849-1931). Journ. Bot. 69: 78-79. Mr.1931. no.819.

White, C. T.
Herbert Bennett Williamson. Journ. Bot. 69: 172. Je.1931. no.822.

Wolley-Dod, A. H.
A revision of the British roses (cont.) Journ. Bot. 69(suppl.): 33-40. Mr.1931. no.819.

Journ. Cactus & Succ. Soc. Amer.

Brown, N. E.
Rhopalota aphylla N.E. Br. Journ. Cactus & Succ. Soc. Amer. 3: 7-8. illus. Jl. 1931. no.1.

Manning, J.
An introduction to the study of cacti. Subtribe IV. Echinocactanae, genera 28. Journ. Cactus & Succ. Soc. Amer. 3: 14-17. illus. Jl. 1931. no.1.

Walther, E.
Genus Pachyphytum. Journ. Cactus & Succ. Soc. Amer. 3: 9-13. illus. Jl. 1931. no.1.

V.13, no.14, p.16.

Journ. Dept. Agr. Victoria (Melbourne)
Tindale, G. B. & Fish, S.
Blue and green moulds of oranges. Sources and methods of infection, together with a study of temperature in relation to infection periods. Journ. Dept. Agr. Victoria 29: 101-104. F.1931. no.2.

Journ. Elisha Mitchell Sci. Soc. (Chapel Hill, N.C.)
Ashe, W. W.
Polycodium. Journ. Elisha Mitchell Sci. Soc. 46: 196-213. Je.1931. no.2.

Blomquist, H. L.
A check list of the common mosses of Durham, N.C., and vicinity. Journ. Elisha Mitchell Sci. Soc. 46: 170-178. Je.1931. no.2.

Blomquist, H. L.
Genetics of mosses. (An abstract) Journ. Elisha Mitchell Sci. Soc. 46: 267-275. Je.1931. no.2.

Couch, J. N.
Micromyces zygogonii Dang., parasitic on Spirogyra. Journ. Elisha Mitchell Sci. Soc. 46: 231-239. pl. 16-18. Je.1931. no.2.

Couch, J. N.
Observations on some species of water molds connecting Achlya and Dictyuchus. Journ. Elisah Mitchell Sci. Soc. 46: 225-229. pl.15. Je. 1931. no.2.
D. missouriensis n.sp.

Harrison, T. G.
Symplocos tinctoria ashei, a new dyebush from the southern mountains. Journ. Elisha Mitchell Sci. Soc. 46: 218-220. Je. 1931. no.2.

Lehman, S. G.
Observations and experiments relating to the bacterial pustule disease of soybean. Journ. Elisha Mitchell Sci. Soc. 46: 179-189. Je.1931. no.2.

Journ. Elisha Mitchell Sci. Soc. (cont.)

Lehman, S. G.

Powdery mildew of soybean. Journ. Elisha Mitchell Sci. Soc. 46: 190-195. illus. Je.1931. no.2.

Peattie, D. C.

Flora of the Tryon region. An annotated list of the plants growing spontaneously in Polk County, N. C., and adjacent parts of South Carolina, in Greenville and Spartanburg counties. VI. Daisy family (Compositae). List of new names published. Errata. Summary. Journ. Elisha Mitchell Sci. Soc. 46: 129-160. Je.1931. no.2.

Weber, G. F.

Occurrence and habitat of Cordyceps agariciformia (Bolt.) Seaver in Florida. Journ. Elisha Mitchell Sci. Soc. 46: 221-223. pl.13-14. Je.1931. no.2.

Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo.

Tatewaki, M.

The primary survey of the vegetation of the middle Kuriles. Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo. 29: 127-190. illus., pl.i-x. Mr.1931. no.4.

Journ. Helminth. (London)

Triffitt, M. J.

Note on a fungus parasite associated with Heterodera schachtii infections on potatoes. Journ. Helminth. 9: 47-48. My.1931. no.2.

Colletotrichum atramentarium.

Journ. Indian Inst. Sci. (Madras)

Narasimha Acharya, C. & Sastri, B. N.

Studies on the chemical composition and physical properties of plant tissue fluids. I. Effects of age and environment on the tissue fluids of French beans (Phaseolus vulgaris). Journ. Indian Inst. Sci. 14A: 1-9. 1931. no.1.

Journ. Pomol. & Hort. Sci. (London)

Bijhouwer, A. P. C.
Old and new standpoints on senile degeneration. Journ. Pomol. & Hort. Sci. 9: 122-144. illus. Je.1931. no.2.

Harris, R. V.
Raspberry cane spot: its diagnosis and control. Journ. Pomol. & Hort. Sci. 9: 73-99. pl.i-vi. Je. 1931. no.2.
Plectodiscella veneta.

Moffett, A. A.
A preliminary account of chromosome behaviour in the pomoideae. Journ. Pomol. & Hort. Sci. 9: 100-110. illus. Je.1931. no.2.

Wallace, T.
Chemical investigations relating to potassium deficiency of fruit trees. Journ. Pomol. & Hort. Sci. 9: 111-121. Je.1931. no.2.

Journ. Roy. Micr. Soc. (London)

La Cour, L.
Improvements in everyday technique in plant cytology. Journ. Roy. Micr. Soc. III, 51: 119-126. 3 pl. Je.1931. no.2.

Journ. Sapporo Soc. Agr. & For.

Maekawa, J.
An investigation of some physical characters of oat grains. Journ. Sapporo Soc. Agr. & For. 23: 1-12. Je. 1931. no.104.
In Japanese.

Tatewaki, M.
A list of plants collected in the Horomui-Moor, Prov. Ishikari, Hokkaido. Journ. Sapporo Soc. Agr. & For. 23: 60-83. Je.1931. no.104.
In Japanese.

Tatewaki, M.
On the forest ecology and the distribution of the trees and shrubs in the Kuriles. Journ. Sapporo Soc. Agr. & For. 23: 27-59. Je.1931. no.104.
In Japanese.

Kolloidchem. Beih.
Samec, M.
Studien über pflanzenkolloide XXVI-XXVII. Kolloidchem. Beih. 33: 95-102, 103-130. Je.15, 1931. no.1/4.
XXVI. Die beziehungen zwischen phosphor und stickstoff in der kartoffel- und weizenstärke. XXVII. Weitere beiträge zur differenzierung der amylo- und erythrokörper bei stärke.

Landbouw Tijdschr. Vereen. Landb. Nederl. - Indië
Magielse, M. M.
Resultaten van enten en oculeeren van vruchtboomen in den gouvernements-tuinbouwproeftuin "Ragoenan". (Results of budding and grafting of fruits-trees in the Ragoenan experimental garden) Landbouw. Tijdschr. Vereen. Landb. Nederl.-Indië 6: 944-971. Ap.1931. no.10.
English summary: p.961.

K. Landtbr. Akad. o Tidskr. (Stockholm)
Barthel, C.
Jacob Eriksson. K. Landtbr. Akad. o Tidskr. 1931: 505-509. port. no.4.

Landw. Versuchsst. (Berlin)
Esdorn, J.
Untersuchungen über anomale kleekeimungen. Landw. Versuchsst. 112: 103-114. 1931. no.1/2.

Lesnická Práce (L'Oeuvre For.) (Pisek, Moravia)
Veselý, J.
K otázce vzniku bukového jadra, způsobeného tuhou zimou 1928/29. (Zur frage der entstehung des buchenfrostkerns). Lesnická Práce (L'Oeuvre For.) 10: 256-262. 1931. no.5/6.
German summary: p.262.

Maine Naturalist (Augusta, Me.)
Ewer, S. J.
Botanical explorations at Katahdin. Maine Naturalist 10: 87-98. illus. 1930. (Rec'd Jl. 1931) no.3.

Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.)(Leningrad)

Balakhonov, P.
K voprosu o sil'nom razvitii monilial'nogo "ozhoga" tsvetov kostochkovykh na Severnom Kavkaze [Concerning the development of Monilia "scald" on stone fruits in Northern Caucasus] Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 137-139. 1931.
Russian.

Chastukhin, V. I.
Issledovaniia po fiziologii gribov [Investigations on the physiology of fungi] Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 3-55. illus. 1931.
Russian.

Karpova-Benua, E. I.
Griby sem. Thelephoraceae, sobrannye v Moskovskoi gubernii v 1926 godu. [Fungi of the family Thelephoraceae, collected in the Moscow government in 1926] Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 77-113. illus. 1931.
Russian.

Natal'ina, O.
Polystigmella ussuriensis nov. gen. et sp. Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 161-164. illus. 1931.
Russian.

Naumov, N. A.
Novii grib iz gruppy Acervulales, Chaetospermella populina gen. et sp. nov. [New gungus of the Acervulales group , Chaetospermella populina, gen. et sp.nov.] Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 141-143. illus. 1931.
Russian with Latin diagonisis.
On leaves of Populus tremulae.

Naumov, N. A.
Resul'tati rabot po izucheniiu gribnykh bolezneĭ saranchi - Schistocerca gregaria v Srednei Azii letom 1929 g [Results of study of the fungus diseases of locust (Schistocerca gregaria) in Central Asia in summer of 1929] Mater. Mikol. i. Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 115-124. 1931.
Russian.

Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) (cont.)

Naumov, N. A.
Spisok gribov sobrannykh v Krymu N. A. Naumovym 3-10 sentiabriâ 1927 g. [List of fungi collected in Crimea by N. A. Naumov September 3-10,1927]. Mater. Mikol. i Fitopat. [Mater. Mycol. & Phytopath.] 8(2): 133-136. illus. 1931.
Russian with Latin diagnosis of new species.

Oltarzhevskii, N. P.
Oreintirovochnaiâ krivaiâ mil'd'iu vinograda (Plasmopara viticola) v raĭone Derbenta po dannym odnogo vegetsionnogo perioda 1929 goda [Plotting the curve of grape mildew (Plasmopara viticola) in the district of Derbenta for one vegetative period] Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 155-160. illus. 1931.
Russian.

Parievskaiâ, A. P.
Mokraia ili belaiâ gnil na l'ne, vyzyvaemaiâ gribom Sclerotinia libertiana Fuckel [Wet or white rot of flax caused by the fungus Sclerotinia libertiana Fuckel] Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 165-170. illus. 1931.
Russian.

Petrov, M. P.
Novyĭ vid iz roda Queletia Fries (A new species in the genus Queltia Fries). Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 71-75. 1931.
Russian with Latin diagnosis (Q.turkestanica)

Rokhlina, E.I.
K anatomii kartofel'nogo rasteniiâ, porazhennogo mozaichnymi zabolevaniiâmi [Anatomy of potato plant affected by mosaic disease]. Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 145-154. pl.i-iii. 1931.
Russian.

Samutsevich, M.M.
Sravitel'naiâ zarazhennost gribami vody, vozdukha i pochvy (Comparative fungus infection of water, air and soil) Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 63-69. 1931.
Russian.

Mater. Mikol. i Fitopat, (Mater. Mycol. & Phytopath.) (cont.)
Tverskoi, D. L.
Bakterial'naia piatnistost tabaka i makhorki [Bacterial spot of tobacco and "makhorka"]
Mater. Mikol. i Fitopat. (Mater. Mycol. & Phytopath.) 8(2): 115-132. illus. 1931.
Russian.
"Makhorka" is an inferior kind of tobacco.
Bacterium melleum.

Mitt. Inst. Allg. Bot. Hamburg.
Irmscher, E.
Beiträge zur kenntnis der flora von Borneo 10-20. Mitt. Inst. Allg. Bot. Hamburg 7: 179-262. illus. 1931. no.3.

Nat. Hort. Mag. (Washington, D.C.)
Fairchild, D.
The southern cypress as a columnar landscape tree. Nat. Hort. Mag. 10: 209-212. illus. Jl. 1931. no.3.

Macoun, W. T.
Some new lilac hybrids. Nat. Hort. Mag. 10: 185-190. illus. Jl.1931. no.3.

Pierce, R. G.
The Ismene lilies. Nat. Hort. Mag. 10: 196-199. illus. Jl.1931. no.3.
Hymenocallis calathina.

Purdy, C.
Erythroniums. Nat. Hort. Mag. 10: 173-180. illus. Jl. 1931. no.3.

Simpson, C. T.
Epiphytes or air plants. Nat. Hort. Mag. 10: 181-185. illus. Jl.1931. no.3.

Nature (London)
Findlay, W. P. K.
Effect of fungi upon the strength of timber. Nature 127: 925. Je.20, 1931. no.3216.

Hill, A.W.
Dr. Rudolph Marloth. Nature 127: 945. Je.20, 1931. no.3216.

Nature (cont.)

Prof. Jakob Eriksson. Nature 127: 945-946. Je.20, 1931. no.3216.
Notice of death.

Scott-Moncrieff, R.
The chemical effect of a Mendelian factor for flower colour. Nature 127: 974-975. Je.27, 1931. no.3217.

Storey, H. H.
The inheritance by a leafhopper of the ability to transmit a plant virus. Nature 127: 928. Je.20, 1931. no.3216.

Weatherall, R.
Mortality among plants and its bearing on natural selection. Nature 127: 33-34. Jl.4, 1931. no.3218.

Nord. Jordbrugsforskn. (København)

Åslander, A.
Natriumkloratets verkan på åkertistel och andra växter. Nord. Jordbrugsforskn. 1931: 1-21. illus. no.1.
English summary: p.18-19. (The effect of sodium chlorate upon Cirsium arvense (L.) Scop. and other plants).

Obst-u. Gemüseb. (Berlin)

Bremer, H.
Die blattfleckenkrankheit oder der "rost" des selleries. Obst- u. Gemüseb. 77: 94-95. illus. Je.15, 1931. no.6.

Ewert, R.
Veränderlichkeit des apfelpollens, nachgewiesen durch die "spur-unit-methode". Obst- u. Gemüseb. 77: 60. illus. Ap.15, 1931 (Rec'd Jl.) no.4.

Holder-Egger,
Bestäubungsversuche mit bekämpfung des fusikladiums auf kernobstbäumen. Obst-u. Gemüseb. 77: 48-49. illus. Mr.15, 1931 (Rec'd Jl.) no.3.

Obst- u. Gemüseb. (cont.)

Karmann, W.
Rückschnitt der himbeerruten bei der pflanzung und bekämpfung der rutenkrankheit. Obst-u. Gemüseb. 77: 13-14. Ja.15, 1931. (rec'd Jl.) no.1.

Laubert, R.
Wiederum eine neue fleckkrankheit an aepfeln. Obst- u. Gemüseb. 77: 15. illus. Ja.15, 1931. (Rec'd Jl.) no.1.
Stemphylium maculans Osterwalder.

Loewel,
Ein schädlingsbekämpfungsversuch. Obst- u. Gemuseb. 77: 78-79. My.15, 1931. (Rec'd Jl.) no.5.
Control of Fusicladium on apple.

Ludwigs, K.
Steifenkrankheit und sklerotienkrankheit der tomaten. Obst.- u. Gemüseb. 77: 14-15. Ja.15, 1931 (Rec'd Jl.) no.1.

Schlosser, J.
Schnitt der schattenmorellen als mittel zur bekämpfung der Monilia. Obst- u. Gemüseb. 77: 77-78. My.15, 1931. (Rec'd Jl.) no.5.

Sörensen, J. J.
Mehr schnitt im schattenmorrellenbau. Obst- u. Gemüseb. 77:23. F.15, 1931 (Rec'd Jl.) no.2.

Orchid Rev. (Richmond, England)

Barbieri, N.A.
The life of plants in enclosed atmospheres free from carbon dioxide. Orchid Rev. 39: 208-210. illus. Jl.1931. no.457.
English translation of his "La vie des plantes dans des atmospheres confinees depourvues d'anhydride carbonique. Bull. Mens. Soc. Nat. Hort. France v.4. Ja.1931.

Cooper, E.
Stanhopea guttulata. Orchid Rev. 39: 202-203. Jl. 1931. no.457.

Thurgood, F. W.
Eulophiellas and their cultivation. Orchid Rev. 39: 213-214. Jl. 1931. no.457.

Pharm. Journ. (London)

Moore, E. J.
Some methods of plant histology. Pharm. Journ. 126(IV,72): 578-579. Je.27, 1931. no.3530.

Phytopath.

Atwell, E. A.
Occurrence of Cadophora fastigiata in Canada. Phytopath. 21: 761. Jl.1931. no.7.

Brooks, A. N.
Anthracnose of strawberry caused by Colletotrichum fragariae, n.sp. Phytopath. 21: 739-744. illus. Jl.1931. no.7.

Cummins, G. B.
Heterothallism in corn rust and effect of filtering the pycnial exudate. Phytopath. 21: 751-753. Jl.1931. no.7.

Godfrey, G. H.
Tylenchus dipsaci on Hypochaeris radicata in Hawaii. Phytopath. 21: 759-760. illus. Jl. 1931. no.7.

Heuberger, H.W. & Moyer, A. J.
Influence of mosaic infection on tomato yields. Phytopath. 21: 745-749. Jl. 1931. no.7.

Nieves, R.
Resistencia comparativa a la Tilletia levis Kühn, del trigo, en la Argentina. Phytopath. 21: 706-727. Jl.1931. no.7.
English summary p. 723-725.

Wilson, J.D. & Runnels, H.A.
Bordeaux mixture as a factor increasing drouth injury. Phytopath. 21: 729-738. illus. Jl. 1931. no.7.

Zundel, G. L.
New or unusual symptoms of virus diseases of raspberries. Phytopath. 21: 755-757. illus. Jl.1931. no.7
Fern-leaf, witches broom.

Pomol. Franç. (Villefranche, France)
Chasset, L.
Gustave Rivière. Pomol. Franç. 1931: 95-96. port. Je.1931. no.6.
Notice of death.

Prakt. Blätt. Pflanzenb. u. Pflanzensch. (Freising)
Fürst, F.
Die klappertopf - (Alectorolophus-) unkräuter und ihre bekämpfung. Prakt. Blätt. Pflanzenb. u. Pflanzensch. 9: 79-90. Jl.1931. no.4.

Proc. Nat. Acad. Sci.
Cleland, R. E.
The probable origin of Oenothera rubricalyx "afterglow" on the basis of the segmental interchange theory. Proc. Nat. Acad. Sci. 17: 437-440. Jl.1931. no.7.

Frost, H. W.
Uncomplicated trisomic inheritance of purple versus red in Matthiola incana. Proc. Nat. Acad. Sci. 17: 434-436. Jl.1931. no.7.

Progr. Agr. & Vitic. (Montpellier)
Merjanian, A. & Kovalewa, M. W.
Sur une nouvelle maladie bacillaire des grains de raisin. Progr. Agr. & Vitic. 95: 594-599, illus., col.pl.; 96: 17-21. illus. Je.21,Jl.25, 1931.
Bacillus vitis.

Queensl. Agr. Journ. (Brisbane)
Morwood, R. B.
Flag smut in wheat experiments, 1930. Queensl. Agr. Journ. 35: 363-367. Je.1, 1931. no.6.

Schweiz. Zeitschr. Obst- u. Weinb. (Wädenswil)
Schellenberg, A.
Starkes auftreten der chlorose (gelbsucht) in den Weinbergen. Schweiz. Zeitschr. Obst- u. Weinb. 40: 281-282. Jl.4, 1931. no.14.

Science (Lancaster, Pa.)
Dr. C.H. Kauffman... Science 74:9. Jl.3, 1931. no.1905.

Murneck, A. E. & Gildehaus, E. J.
Leaf diagnosis and the interpretation of fertilizer requirements of plants. Science 74: 39-41. Jl.10, 1931. no.1906.

Science (cont.)

Sax, K.
The mechanism of crossing-over. Science 74: 41-42. Jl.10, 1931. no.1906.

Spragu, R.
Cercosporella herpotrichoides Fron, the cause of the Columbia basin footrot of winter wheat. Science 74: 51-53. Jl.10,1931. no.1906.

Wind effect on trees imitated in laboratory. Science. 74: 14. Jl.3,1931. no.1905.
Experiments carried on by Dr. W. S. Cooper, University of Minnesota, with Monterey cypress.

South. Lumberm.

Lindgren, R. M.
Prevention of sap stain and mold in southern woods by chemical treatment. South. Lumberm. 142(1796): 42-46. illus. F.1, 1931.

Svenska Linné-Sällsk. Årsskr.

Hult, O.
P. J. Bergius och medicinen i Sverige. Svenska Linné-Sällsk. Årsskr. 14: 1-11. illus. (incl. port.) 1931.
English summary: p 172.

Juel, H. O.
Förteckning över i Uppsala förvarade herbarieexemplar med paskrifter av Linnés hand. Svenska Linné-Sällsk. Årsskr. 14: 12-16. 1931.

Sernander, R.
Linnaeus och Rudbeckarnes Hortus botanicus. Svenska Linné-Sällsk. Årsskr. 14: 126-159. illus. 1931.
English summary: p.173.

Wein, K.
F. Ehrhart und J. A. Murray. Zwei typen der botaniker der aufklärungszeit. Svenska Linné-Sällsk. Årsskr. 14: 72-84. ports. 1931.

Trans. Sapporo Nat. Hist. Soc.

Kawai, K. & Otani, H.
A provisional list of fungi collected in southern Saghalien. Trans. Sapporo Nat. Hist. Soc. 11: 227-242. illus. 1931. no.4.
Puccinia polygoni-weyrichii, P. sonchi-arvensis, P. tokunagai, P. tossoensis, n. spp.

Trans. Sapporo Nat. Hist. Soc. (cont.)

Tanaka, I. & Iwadare, S.
Olvularia-disease of sand-vetch (Preliminary report). Trans. Sapporo Nat. Hist. Soc. 11: 260-265. illus. 1931. no.4.
Japanese with English summary.
O. schwarziana on Vicia villosa.

Tatewaki, M.
Notes on the plants of the western Aleutian Islands collected in 1929, II. Trans. Sapporo Nat. Hist. Soc. 11: 200-209. 1931. no.4.

Tokida, J.
On two species of Sphacelariales new to Japan. Trans. Sapporo Nat. Hist. Soc. 11: 215-220. illus. 1931. no.4.
Sphacelaria plumigera, Halopteris scoparia.

Trop. Agr. (Ceylon) (Peradeniya)

Murray, R.K.S.
Diseases of rubber in Ceylon, 1930. Trop. Agr. (Ceylon) 74: 270-273. My.1931. no.5.

U. S. Dept. Agr. Misc. Publ.

Dayton, W. A.
Glossary of botanical terms commonly used in range research. U. S. Dept. Agr. Misc. Publ. 110. 40 p. illus. Jl.1931.

U. S. Dept. Agr. Off. Rec.

Haskell, R. J. & Boerner, E. G.
How much stinking smut in the field makes grain smutty? Department specialists study relation of smut of wheat in the field to smuttiness of grain after being threshed. U. S. Dept. Agr. Off. Rec. 10: 202. Jl.11, 1931. no.28.

U. S. Dept. Agr. Plant Dis. Rep.

Arndt. C. H. & Steiner, G.
Aphelenchus parietinus as the cause of seedling losses in cotton. U. S. Dept. Agr. Plant Dis. Rep. 15: 82-83. Jl.15, 1931. no.8.

Bratley, C. O.
Decay of sweet cherries from California. U. S. Dept. Agr. Plant Dis. Rep. 15: 73-74. Jl.1,1931. no.7.
New York market pathology notes.

U. S. Dept. Agr. Plant Dis. Rep. (cont.)

Chupp. C.
Vegetable disease survey in New York. U. S. Dept. Agr. Plant Dis. Rep. 15: 62-63. Jl.1,1931. no.7.

Davidson, R. W.
Some fungi from the Grand Mesa national forest, Colorado. U. S. Dept. Agr. Plant Dis. Rep. 15: 75-82. Jl.15, 1931. no.8.

Plakidas, A. G.
The strawberry disease situation in Louisiana during the 1931 berry season. U. S. Dept. Agr. Plant Dis. Rep. 15: 65-66. Jl.1,1931. no.7.

Tucker, C. M.
Potato diseases in Florida in 1931. U. S. Dept. Agr. Plant Dis. Rep. 15: 63-64. Jl.1, 1931. no.7.

Washington Hist. Quart. (Seattle)

Sperlin, O. B., ed.
Our first official horticulturist - The Brackenridge journal (cont. & concl.) Washington Hist. Quart. 21: 298-305. O.1930; 22: 42-57, 129-145, 216-227. Ja., Ap., Jl. 1931. no.4; no. 1,2,3.

Zeitschr. Wiss. Mikros. (Leipzig)

Tröthandl, O.
Die mikrokinematographie in der biologie. Ueber eine einfache mikrokinematographische apparatur für biologische zwecke. Zeitschr. Wiss. Mikros. 48: 30-46. illus. Je. 1931. no.1.
Botanik: p.37-39.

Zeitschr. Zücht. A. Pflanzenzücht. (Berlin)

Huber, J. A.
Verebungsstudien an gerstenkreuzungen II. Zur genetik der gerstenähre. Zeitschr. Zücht. A. Pflanzenzücht. 16: 394-463. illus. Je.1931. no.3.

Muth, H.
Untersuchungen über die befruchtungsverhäaltnisse bei Vicia sepium L. (zaunwicke) und Lathyrus pratensis L. (wiesenplatterbse). Zeitschr. Zücht. A. Pflanzenzücht. 16: 465-504. Je. 1931. no.3.

Zeitschr. Zücht. A. Pflanzenzücht. (cont.)
Oehler, E.
Untersuchungen über ansatzverhältnisse, morphologie und fertilität bei weizen-roggen-bastarden. Zeitschr. Zücht. A. Pflanzenzücht. 16: 357-393. illus. Je.1931. no.3.

Zentralbl. Bakt. Abt. II. (Jena)
Bressman, E. N.
The present status of breeding varieties of wheat resistant to bunt. Zentralbl. Bakt. Abt. II, 83: 396-397. Je.8, 1931. no.23/26.

Tiukow, D.
Beitrag zur einteilung der schimmelpilze aus der gattung Penicillium nach physiologischen eigenschaften. Zentralbl. Bakt. Abt. II, 83: 385-395. Je.8, 1931. no.23?26.

Exper. Stat. Publ.
Walker, M. N. & Weber, G. F.
Diseases of watermelons in Florida. Florida Agr. Exp. Stat. Bull. 225. 52 p. illus. F.1931 (Rec'd Jl.)

Crist, J. W. & Batjer, L. P.
The stone cells of pear fruits, especially the Kieffer pear. Michigan Agr. Exp. Stat. Techn. Bull. 113. 55 p. illus. My.1931.

Bressman, E. N.
Varietal resistance, physiologic specialization, and inheritance studies in bunt of wheat. Oregon Agr. Exp. Stat. Bull. 281. 44 p. illus. Je.1931.

Hartman, H.
A peculiar freezing trouble of pears in cold storage. Oregon Agr. Exp. Stat. Bull. 282. 8 p. illus. Je. 1931.

Hartman, H.
A preliminary report on Anjou scald and its control. Oregon Agr. Exp. Stat. Bull. 280. 8 p. illus. Je. 1931.

Harvey, E. M.
A method for studying water conduction in relation to pruning, grafting, and other horticultural practices. Oregon Agr. Exp. Stat. Bull. 279. 26 p. illus. My.1931.

Exper. Stat. Publ. (cont.)

Harvey, E. M.
A preliminary report on the vegetative growth of okra (Hibiscus esculentus Linn.) in relation to the production of varying amounts of reproductive tissue. Oregon Agr. Exp. Stat. Bull. 284. 19 p. illus. Je. 1931.

State Publications.

Scott, I.T., Boillot, B. F. & Sullivan, K. C.
Insect pests and diseases of vegetable and truck crops. Bull. State Bd. Agr. Missouri v.29. 80 p. illus. My./Jl. 1931. no.5/7.

Brentzel, W. E.
The control of bunt (stinking smut) in wheat. North Dakota Agr. Coll. Ext. Div. Circ. 99. 6 p. illus. Ap.1931 (Rec'd Jl.)

Brentzel, W. E.
Treatments for seed potatoes. North Dakota Agr. Coll. Agr. Ext. Div. Circ. 102. 4 p. illus. Ap. 1931 (Rec'd Jl.)

New Books.

Kisser, J.
Die anfertigung von dünnschliffen von rezenten pflanzlichen materialien. In Abderhalden, E. Handbuch der biologischen arbeitsmethoden. Abt.XI, t.4, h.2. (lfg. 353):237-252. illus. 1931.

Kisser, J.
Die mazerationsmethoden für rezente pflanzengewebe. In Abderhalden, E. Handbuch der biologischen arbeitsmethoden. Abt. XI, t.4, h.2. (lfg. 353): 285-330. pl. iii. 1931.

Kisser, J.
Methodik der herstellung pflanzlicher aschenbilder und kieselskelette sowie von anthrakogrammen. In Abderhalden, E. Handbuch der biologischen arbeitsmethoden. Abt. XI, t.4, h.2. (lfg. 353): 195-236. illus., pl. i. 1931.

Schmidt, W. J.
Dichroitische farbung tierischer und pflanzlicher gewebe. In Abderhalden, E. Handbuch der biologischen arbeitsmethoden Abt. V, t.2, h.16 (lfg.355): 1835-1924. illus., col.pl. 1931.

New Books (cont.)

Walter, H.
Die kryoskopische bestimmung des osmotischen wertes bei pflanzen. In Abderhalden, E. Handbuch der biologischen arbeitsmethoden. Abt. XI, t.4, h.2. (lfg.353): 353-371. illus. 1931.

Zimmerman, W.
Arbeitsweise der botanischen phylogenetik und anderer gruppierungswissenschaften. In Abderhalden, E. Handbuch der biologischen arbeitsmethoden. Abt.IX, t.3, h.6 (lfg.356): 941-1053, illus. 1931.

Atanasoff, D.
Bolesti po tiutiuna [Tobaco diseases]. Sofia, 1930.
Bulgarian (Brief English abstact in Rev.Appl. Mycol. 10:131).

Babcock, D. & Ashton, R. E.
Birds and plants of Rocky Mountain national park. [n.p.] The authors, 1930.
Plants by Ruth E. Ashton.

Black, J. M.
Flora of South Australia, pt. III-IV. (Meliaceae - Compositae). Adelaide, 1926-29.

Bonnier, G.
Flore complète illustrée en couleurs de France... Suisse et Belgique...t.11,par R, Douin. Fasc. 107, pl. 637-642. [Carex] Paris, 1931.

Bresadola, J.
Iconographia mycologica XVII. Mediolani, 1931.

Ceballos, L. & Bolaños, M. M.
Estudio sobre la vegetación forestal de la provincia de Cádiz. Madrid, La Moncloa, 1930.

Craib, W. G.
Florae siamensis enumeratio. A list of the plants known from Siam... v.1, pt.4. Rosaceae - Cornaceae. Bangkok, Mr. 1931.

V.13, no.14, p.82.

New Books, (cont.)

Kallenbach, F.
Die rohrlinge (Boletaceae) Die pilze Mitteleuropas hrsg. von der Deutschen gesellschaft fur pilzkunde &c. bd. 1, lfg. 11. Leipzig, W. Klinkhardt, 1930.

Kendall, J.
Histological and cytogical studies of stems of plants injected with certain chemicals (A contribution to the gall problem) Sofia, Bulgaria, 1930.

Kirchner, O. von.
Lebensgeschichte der blütenpflanzen Mitteleuropas Forgeführt von W. Wangerin & C. Schröter lfg. 38/39 (v.2, abt.1,- Ulmaceae von Hans Walter) Stuttgart, E. Ulmer, 1931.

Michotte, F.
Agaves et fourcroyas, culture et exploitation. 3. ed., rev. et augm. Paris, Société d'éditions, géographiques, maritimes et coloniales, 1931

Morton, F.
Guatemala. In Karsten, G. Vegetationsbilder, reihe 22, h.1. 6 pl. 1931.

Pas, C. de.
Hortus floridus, the second book.... the flowers of summer, autumn and winter ... The text translated from the Latin by Spencer Savage. London, The Cresset press, 1929.

Ray, J.
Further correspondence of John Ray, edited by Robert T.W. Gunther. London, Ray Society, 1928. (Ray society publications no.114)

[Rothschild, L.N. de.]
Forrest, Rock and Kingdon Ward rhododendrons in cultivation in Great Britain and Ireland. [n.p., 1930]

Shull, A. F.
Heredity. 2d ed. N.Y., McGraw-Hill, 1931.

Reprints from Journals not yet rec'd or not available.

Catalano, G.
Contributo alla conoscenza delle cause della sterilità in Agave e Fourcroya. Reprinted from Lavori R. Ist. Bot. Palermo v.1, p.1-58. iii pl. 1930.

Tavel, C. von.
Zur systematik und biologie der Allium bewohnenden uredineen (vorläufige mitteilung). Reprinted from Mitt. Naturf. Ges. Bern 1930. 2 p. S. 1930.

Non-current Indexing.

Anal. Inst. Cerc. Agron. Românici (Ann. Inst. Rech. Agron. Roumanie) (Bucuresti)

Popescu, St.
Contributiuni la cunoasterea sistematica a grâului din România (Contributions a la connaissance systématique des blés Roumains). Anal. Inst. Cerc. Agron. Românici (Ann. Inst. Rech. Agron. Roumanie) 2: 173-202. illus. S.1930. no.1.

Bol. Mus. Nac. Chile. (Santiago de Chile)

Espinosa Bustos, M. R.
Anotaciones botánicas. Bol. Mus. Nac. Chile 13: 125-139. illus. 1930.
Observaciones sobre el quisco y el maihuén (Trichocereus chiloensis, Maihuenia poeppigi)

Espinosa Bustos, M. R.
Anotaciones sobre helechos chilenos. Bol. Mus. Nac. Chile 13: 110-119. illus. 1930.

Espinosa Bustos, M. R.
Lista de pteridófitas obsequiadas al Museo nacional. Bol. Mus.Nac. Chile 13: 120-124. 1930.

Philippi, F.
Una visita al bosque mas boreal de Chile. Bol. Mus. Nac. Chile 13: 96-109. 1930.

Bot. Gaz.

McKay, J. W.
Chromosome numbers in Cucurbitaceae. Bot. Gaz. 89: 416-417. Je.1930. no.4.

Lc

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY
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Vol. 13, no. 15. Jl. 20-Ag. 1, 1931.

Addisonia (N.Y.)
Addisonia. v.16, col.pl.521-528. Jl.21, 1931. no.2.
Sparganium androcladum, Rosa rugosa, Malus platycarpa hoopesii, Zizia bebbii, Biltia vaseyi, Cobaea scandens, Atropa belladonna, Mimulus ringens.

Agr. Journ. Brit. Guiana (Georgetown)
Martyn, E. B.
Notes on some diseases of local economic plants and their relation to environment. Agr. Journ. Brit. Guiana 4: 95-100. pl.vi-vii. Je.1931. no.2.

Amer. Forests (Washington)
Lutz, H. J.
A living fossil - the maidenhair tree. Amer. Forests 37: 476-478. illus. Ag.1931. no.8.

Amer. Midl. Nat. (Notre Dame, Ind.)
Rickett, H. W.
Notes on the vegetation of Columbia, Mo. Amer. Midl. Nat. 12: 411-419. Jl.1931. no.10.

Ann. Chim. Appl. (Roma)
Bravo, G. A.
Studio su alcuni vegetali concianti della Colonia Eritrea. Ann. Chim. Appl. 21: 141-146. Mr. 1931. no.3.

Arch. Protistenk. (Jena)
Bachmann, E.
Der lepröse thallus einiger krustenflechten. Arch. Protistenk. 74: 262-296. illus. Jl.1, 1931. no.2.

Entz, G.
Analyse des wachstums und der teilung einer population sowie eines individuums des protisten Ceratium hirundinella unter den natürlichen verhältnissen. Arch. Protistenk. 74: 310-371. illus. Jl.1, 1931. no.2.

Arch. Protistenk. (cont.)

Korschikoff, A. A.
Notizen über einige neue apochlorotische algen. Arch. Protistenk. 74: 249-261. illus. Jl.1, 1931. no.2.
Hyaloraphidium (n.g.) H. contortum, H. curvatum, H. moinae; Gloxidium (n.g.) rotatoriae; Harpochytrium tenuissimum n.sp.

Skuja, H.
Untersuchungen über die rhodophyceen des süsswassers. Arch. Protistenk. 74: 297-309. pl.6-8. Jl.1, 1931. no.2.
Sirodotia fennica n.sp.

Ark. Bot. (Stockholm)

Ciferri, R.
Smuts collected in the Dominican Republic by E. L. Ekman. I. Ark. Bot. v.23A, no.14. 29 p. illus., 3 pl. 1931. no.4.

Klinchowström, A. von.
Zur morphologie der Plagiocystia verrucosa. II. Ein beitrag zur kenntnis der sporitbildung der sporascoten bakterien. Ark. Bot. v.23A, no.12. 32 p. illus. 1931. no.4.

Malme, G.O.A.
Hieracia brasiliensia. Herbarii Regnelliani. Ark. Bot. v.23A, no.15. 10 p. 2 pl. 1931. no.4.

Malme, G.O.A.
Die leguminosen der zweiten regnellschen reise. Ark. Bot. v.23A, no.13. 99 p. illus. 1931. no.4.

Austral. Journ. Exp. Biol. & Med. Sci. (Adelaide)

Grieve, B. J.
"Rose wilt" and "dieback", a virus disease of roses occurring in Australia. Austral. Journ. Exp. Biol. & Med. Sci. 8: 107-121. illus. Je.16, 1931. no.3.

Ber. Deut. Bot. Ges. (Berlin)

Bavendamm, W.
Die frage der bakteriologischen kalkfällung in der tropischen see. Ber. Deut. Bot. Ges. 49: 282-287. Je.25, 1931. no.5.

Ber. Deut. Bot. Ges. (cont.)

Bavendamm, W.
Die zersetzung von hemizellulosen, besonders von agar-agar, durch das meeresbakterium Bacillus gelaticus Gran. Ber. Deut. Bot. Ges. 49: 288-290. Je.25, 1931. no.5.

Cholodny, N.
Lichtwachstumsreaktion und phototropismus. Ber. Deut. Bot. Ges. 49: 243-247. Je.25, 1931. no.5.

Schellenberg, G.
Wert und bedeutung der systematik im rahmen des gesamtfaches. Ber. Deut. Bot. Ges. 49: 248-257. Je.25, 1931. no.5.

Stocker, O.
Ueber die assimilationsbedingungen im tropischen regenwald. Ber. Deut. Bot. Ges. 49: 267-273. Je.25, 1931. no.5.

Stomps, T. J.
Weiteres über parthenogenesis bei Oenothera. Ber. Deut. Bot. Ges. 49: 258-266. illus. Je.25, 1931. no.5.

Tobler, F.
Pilz und alge bei Chiodecton sanguineum (Sw.) Wainio, eine grundsätzliche erörterung über die entstehung von flechten. Ber. Deut. Bot. Ges. 49: 274-281. illus. Je.25, 1931. no.5.

Veh, R. von
Nachweis der reduktionsteilung im weiblichen archespor von Malus (Bei der apfelsorte "Schöner von Boskoop") Ber. Deut. Bot. Ges. 49: 290-292. Je.25, 1931. no.5.

Bergcultures (Batavia, Java)

Haan, J.Th. de
Meeldauwbestrijding in midden-Java in '30. Bergcultures 5: 649-651. Je.13, 1931. no.24.

Steinmann, A.
Een nieuwe bladschimmel op thee in Nederlandsch Indie. Bergcultures 5: 678-680. illus. Je.20, 1931. no.25.
Asterina camelliae.

Biol. Rev. & Biol. Proc. Cambridge Phil. Soc.

Darlington, C. D.
Meiosis. Biol. Rev. & Biol. Proc. Cambridge Phil. Soc. 6: 221-264. illus. Jl. 1931. no.3.

Smith, K. M.
Virus diseases of plants and their relationship with insect vectors. Biol. Rev. & Biol. Proc. Cambridge Phil. Soc. 6: 302-344. Jl.1931. no.3.

Bulet. Agr. [Rumania] Suppl. (Bucurest)

Zamfirescu, N.
Cercetări asupra absorbtiunii apei prin organele aeriene ale plantelor. (Recherches sur l' absorption de l'eau par les organes aériens des plantes). Bulet. Agr. [Rumania] Suppl. 3:3-105. illus. 1931. no.5/6.
French summary

Bull. Agr. Congo Belge (Bruxelles)

Claus, F.
La capture des poissons au moyen de plantes toxiques. Bull. Agr. Congo Belge 21: 1095-1114. illus. D.1930(Rec'd Jl.1931) no.4.

Liberi, G.
Contributo allo studio di alcuni vegetali tanniferi dell' Eritrea. Bull. Agr. Congo Belge 21: 1330-1345. D.1930(Rec'd Jl.1931) no.4.

Mello Geraldes, C. de, Almeida, A.d'. & Duarte, C.
Etude sur quelques graines oléagineuses forestières de l'Angola. Bull. Agr. Congo Belge 21: 1280-1291. D.1930 (Rec'd Jl.1931) no.4.

Pynaert, L.
Le Phytelephas macrocarpa (ivoire végétal ou corozo) au jardin botanique d'Eala. Bull. Agr. Congo Belge 21: 1083-1091. illus. D.1930(Rec'd Jl.1931) no.4.

Pynaert, L.
Les plantes condimentaires au Congo Belge. Bull. Agr. Congo Belge 21: 1073-1082. illus. D. 1930(Rec'd Jl.1931) no.4.
Piper nigrum, Myristica fragrans.

Bull. Agr. Congo Belge. (cont.)

Robyns, W.
Les graminées fourragères du Congo Belge et l'amélioration des pâturages naturels. Bull. Agr. Congo Belge 21: 1374-1391. illus. D.1930 (Rec'd Jl.1931) no.4.

Tilemans, Em.
Comment lutter contre les maladies de l'hévéa. Bull. Agr. Congo Belge 21: 1196-1202. D.1930(Rec'd Jl.1931) no.4.

Bull. Cl. Sci. Acad. Roy. Belg. (Bruxelles)

Bouillienne, M. et R.
Recherches expérimentales sur l'agent toxique du pollen d'"Ambrosia div. sp." (Compositacées.)(cont.) Bull. Cl. Sci. Acad. Roy. Belg. V,17:318-338. incl. pl.iv, tab. iv-xiv. 1931. no.3.

Homes, M. V. L.
Contribution à l'étude de la perméabilité cellulaire. Les caractéristiques de perméabilité et leur détermination. Bull. Cl. Sci. Acad. Roy. Belg. V, 17: 409-419. 1931. no.3.

Wildeman, E. de.
Sur quelques chytridinées parasites d'algues. Bull. Cl. Sci. Acad. Roy. Belg. V,17: 281-298. illus., pl. i-ii. 1931. no.3.
Rhizophidium vaucheriae, R. multiporum, R. schroeteri, Olpidium stigeoclonii.

Bull. Misc. Inform. Kew. (London)

Bullock, A. A.
Dissotis mirabilis Bullock (K.B.1931, 99). Bull. Misc. Inform. Kew 1931: 399. no.7.
Synonym of D. macrocarpa.

Bullock, A. A.
The genus Haplocoelum. Bull. Misc. Inform. Kew 1931: 353-357. no.7.
Haplocoelum mombasense, H. strongylocarpum, n.spp.

Marsden-Jones, E. M. & Truuill, W. B.
Researches on Silene maritima and S. vulgaris: VII. Bull. Misc. Inform. Kew 1931: 391-397. no.7.

Bull. Misc. Inform. Kew. (cont.)

Sandwith, N.Y.
Contributions to the flora of tropical America. VII. New and noteworthy Leguminosae and Rosaceae from British Guiana. Bull. Misc. Inform. Kew 1931: 357-377. no.7.

Summerhayes, V. S.
African orchids. II. Bull. Misc. Inform. Kew 1931: 378-390. no.7.

Thomas Ford Chipp, M. C., Ph.D., D.Sc. Bull. Misc. Inform. Kew 1931: 397-398. no.7.

Bull. Miyazaki Coll. Agr. & For.

Endô, S.
Studies on the antagonism of microorganisms. I. Growth of Hypochnus centrifugus (Lév.) Tul. as influenced by the antagonistic action of other microorganisms. Bull. Miyazaki Coll. Agr. & For. 3: 95-119. pl. iii. 1931.

Hino, I. & Nagaoka, E.
Cintractia machilli n.sp., a new smut of Machilus longifolia Blume and M. thunbergii Sieb. et Zucc. var. glaucescens Blume. Bull. Miyazaki Coll. Agr. & For. 3: 49-58. illus., pl.i-ii. 1931.

Matubara, S.
Experiments on the grafting of fruit trees and their anatomical and physiological observations in relation to its success. Bull. Miyazak Coll. Agr. & For. 3: 21-41. 1931.
In Japanese, with English summary.

Sigematu, Y.
Hardening of bamboo shoots with special reference to the growth of the shoots. Bull. Miyazaki Coll. Agr. & For. 3: 121-128. 1931.

Yonemoto, S. & Kato H.
Factors influencing the perithecial formation of Aspergillus glaucus Link. Bull. Miyazaki Coll. Agr. & For. 3: 59-94. 1931.

Bull. Res. Dept. United Fruit Co.

Bowman, G. F.

Propagation of the banana. Final report on an experiment at La Frague farm, Tela. Bull. Res. Dept. United Fruit Co. no.35. 15 p. vi pl., 2 tab. Ap.1931 (Rec'd Jl.)

Mimeographed.

Skutch, A. F.

The anatomy of the rhizome of the banana in relation to infection by Panama disease. Bull. Res. Dept. United Fruit Co. no.36. 7 p. 4 pl. Je. 1931.

Mimeographed.

Bull. Soc. Bot. Genéve.

Beauverd, G.

Polymorphisme de quelques plantes du Massif de la Vanoise (Savoie). Bull. Soc. Bot. Genéve II, 22: 439-464. 1931.

Chodat, R.

Les staurosomes à la diakinèse. Bull. Soc. Bot. Genéve II, 22: 520-523. 1931.

Fahmy, T.

Étude de la pénétration du champignon Fusarium vasinfectum Atk. var. aegyptiacum T. Fahmy dans les racines du cotonnier. Bull. Soc. Bot. Genéve II, 22: 62-125. illus. 1931.

Guyot, H.

La flore des secteurs valaisans et valdôtains à climat subatlantique. Bull. Soc. Bot. Genéve II, 22: 507-519. illus. 1931.

Melliger, R.

Etude sur la fermentation des dattes. Bull. Soc. Bot. Genéve II, 22: 465-506. 2 pl. 1931.

Oppenheimer, H. R.

Florula transiordanica. Bull. Soc. Bot. Genéve II, 22: 126-438. illus. 1931.

Reliquiae Aaronsohnianae. Première serie des travaus scientifiques d'Aaron Aaronsohn. Editée par la famille Aaronsohn. I.

Documents biographiques sur Aaronsohn par Alex. Aaronsohn (Index bibliographique, p.156). Aaron Aaronsohn: extraits des journaux de voyages. - H.R. Oppenheimer: Florula transiordanica.

Bull. Soc. Bot. Genéve. (cont.)

Virzi, T.
Etude sur les mouvements périodiques des feuilles des Oxalis. Bull. Soc. Bot. Genéve. II, 22: 1-61. illus. 1931.

Bull. Soc. Dendrol. France. (Paris)

Dode, L. A.
Enquête sur les effets des froids de l'hiver 1928-1929 (cont.) Bull. Soc. Dendrol. France 76: 79-80. N.15, 1930.

Dode, L. A.
Notes dendrologiques. Bull. Soc. Dendrol. France 76: 81-101. N.15, 1930.
I. Sur les saules pleureurs. II. Sur x Salix chrysostela, III. Sur les Saules de l'Indo-Chine. IV. Sur quelques myricacées.
Salix thorelii n.sp.

Hickel, R.
Les conifères d'Indo-Chine. Bull. Soc. Dendrol. France 76: 73-78. N.15, 1930.

Bull. Soc. Roy. Bot. Belg. (Bruxelles)

Beeli, M.
Contribution à l'étude de la flore mycologique du Congo. Fungi goossensiani. VIII. Genre Amanita Fr. Bull. Soc. Roy. Bot. Belg. 63(II,13): 100-109. pl. vii-ix. 1930. no.2.

Braecke, M.
Sur la présence d'un hétéroside dédoublable par l'émulsine dans le Vaccinium oxycoccos L. (Oxycoccos palustris Pers.) Bull. Soc. Roy. Bot. Belg. 63(II,13): 96-99. 1931. no.2.

Houzeau de Lehaie, J.
Louis Magnel 1863-1930. Bull. Soc. Roy. Bot. Belg. 63(II,13): 7-10. port. 1931. no.1.

Houzeau de Lehaie, J.
Note sur la variation chez les orchidées indigènes en Belgique, IV-V. Bull. Soc. Roy. Bot. Belg. 63(II,13): 36-39, 82-95. 1931. no.1,2.

Bull. Soc. Roy. Bot. Belg. (cont.)

Lathouwers, V.
La variabilité (non fluctuante) dans une lignée de Triticum vulgare apparition de variantes "speltoides" stériles. Bull. Soc. Roy. Bot. Belg. 63(II,13): 49-54, 150-166. pl.vi. 1931. no.1,2.
Pt. II has title: Contribution à la génétique de Triticum vulgare. II. Étude des descendances de variantes a fertilité réduite.

Robyns, W.
Note complémentaire sur les Hemizonia. Bull. Soc. Roy. Bot. Belg. 63(II,13): 113-114. 1931. no.2.

Rousseau, D.
Kleinia articulata Haworth. Bull. Soc. Roy. Bot. Belg. 63(II,13): 15-21. pl.i-iii. 1931. no.1.

Steyaert, R. L.
Cladosporium hemileiae n.spec. Un parasite de l' Hemileia vastatrix Berk. et Br. Bull. Soc. Roy. Bot. Belg. 63(II,13): 46-48. pl.iv-v,(1 col.) 1931. no.1.

Stockmans, F.
Vacuoles à tanin. Bull. Soc. Roy. Bot. Belg. 63(II,13): 115-133. pl.x-xiv. 1931. no.2.

Vandendries, R.
La tétrapolarité et les mutations sexuelles chez Hypholoma hydrophilum Bull. Bull. Soc. Roy. Bot. Belg. 63(II,13): 26-35. illus. 1931. no.1.

Verplancke, G.
Étude histologique comparée de tubercules sains allongés et normaux et de tubercules atteints de "spindle tuber" Bull. Soc. Roy. Bot. Belg. 63 (II,13): 139-148. 1931. no.2.

Wildeman, E. de.
A. Hardy, 1846-1929. Bull. Soc. Roy. Bot Belg. 63(II,13): 11-12. 1931. no.1.

Burma Forest Bull.

Scott, C. W. & Parkinson, C. E.
The common oaks and chestnuts of Maymyo and Kalaw. Burma Forest Bull. no.19. 2d ed., rev. 19 p. 29 pl. 1931.

Canad. Journ. Res. (Ottawa)

Newton, R. & Brown, W. R.
Frost precipitation of proteins of plant juice. Canad. Journ. Res. 5: 87-110. pl. i. Jl.1931. no.1.
Experiments with winter wheat grown in greenhouse.

Citrus Indust. (Tampa, Fla.)

Stevens, H. E. & Fulton, H. R.
Rots of Florida citrus fruits. Citrus Indust. 12(7): 7, 24. Jl.1931. no.7.
Penicillium and stem-end rots.

Compt. Rend. Acad. Agr. France. (Paris)

Wéry, G.
Sur la mosaique, maladie de la canne a sucre. Compt. Rend. Acad. Agr. France 17: 739-743. Jl.1, 1931. no.22.

Compt. Rend. Acad. Sci. Paris

Bridel, M. & Lavieille, R.
Sur le principe sucré du kaá-he-é (Stevia rebaudiana Bertoni): II. Les produits d'hydrolyse diastasique du stévioside; glucose et stéviol. Compt. Rend. Acad. Sci. Paris 193: 72-74. Jl.6, 1931. no.1.

Chouard, P.
Corrélations spécifiques constatées chez quelques Scilles portugaises. (Scilla monophyllose Link. S. ramburei Boiss., S. odorata Link.) Compt. Rend. Acad. Sci. Paris 193: 74-76. Jl.6, 1931. no.1.

Emery, H.
Origine bactérienne des tumeurs de l'orme. Compt. Rend. Acad. Sci. Paris 193: 76-77. Jl.6, 1931. no.1.
Bacterium tumefaciens.

Fosse, R., Brunel, A. & Thomas, P. E.
Application de l'analyse quantitative spectrophotometrique de l'allantoïne au sang de quelques mammifères et à la graine de nombreux végétaux. Compt. Rend. Acad. Sci. Paris 193: 7-11. Jl.6, 1931. no.1.

Guilliermond, A.
Sur le mode de formation des pigments anthocyaniques dans la fleur d'Iris germanica. Compt. Rend. Acad. Sci. Paris 193: 112-114. 1931. no.2.

Compt. Rend. Acad. Sci. Paris (cont.)

Lagatu, H. & Maume, L.
Variation des rapports physiologiques entre les constituants minéraux d'une espèce végétale. Compt. Rend. Acad. Sci. Paris 193: 103-106. Jl.15, 1931. no.2.

Marinesco, N.
Sur la force électromotrice de filtration provoquée par l'ascension de la sève dans les plantes. Compt. Rend. Acad. Sci. Paris 193: 89-91. Jl.6, 1931. no.1.

Compt. Rend. Soc. Biol. Paris.

Conard, A.
Il n'y a pas d'amphinucléole" chez les Spirogyra. Compt. Rend. Soc. Biol. Paris 107: 923-925. Je.30, 1931. no.21.

Conard, A.
Quelle est la signification du nucléole chez Spirogyra? Compt. Rend. Soc. Biol. Paris 107: 925-928. Je.30, 1931. no.21.

Hamet, R.
Influence de la cocainisation sur l'action hypertensive de l'extrait de tiges de Spartium scoparium L., prépare suivant la méthode de Busquet et Vischniac. Compt. Rend. Soc. Biol. Paris 107: 817-820. illus. Je.30, 1931. no.121.

Lenoir, M.
Action du gel sur les noyaux des cellules de l'ovaire et du nucelle chez Fritillaria imperialis L. Compt. Rend. Sci. Biol. Paris 107: 1151-1153. Jl.16, 1931. no.23.

Lwoff, A. & Dusi, H.
Le nutrition azotée et carbonée d'Euglena gracilis en culture pure a l'obscurité. Compt. Rend. Soc. Biol. Paris 107: 1068-1069. Jl.16, 1931. no.23.

Compt. Rend. Soc. Biol. Paris. (cont.)

Manceau, P.

Réactions du Penicillium glaucum cultivé sur liquide type de Raulin additionné de doses croissantes de chlorure de manganèse; métabolisme des sucres. Compt. Rend. Soc. Biol. Paris 107: 1148-1149. Jl.16, 1931. no.23.

Manceau, P

Réactions du Penicillium glaucum cultivé sur liquide type de Raulin additionné de doses croissantes de quelques anti-oxygènes; métabolisme des sucres et des phytostérols. Compt. Rend. Soc. Biol. Paris 107: 1149-1150. Jl.16, 1931. no.23.

Curt. Bot. Mag.

Curt. Bot. Mag. v.154, p.4, col.pl.9238-9248. Jl.8, 1931.

Rhododendron scottianum, Amygdalus tangutica, Delosperma ornatulum, Gentiana sino-ornata, Roemeria refracta var. setosa, Epidendrum campylostalix, Chirita marcanii, Primula latisecta, Rhododendron chryseum, Arctotis speciosa hayana, Rosa holodonta.

Ecology (Brooklyn, N. Y.)

Morrow, M. B.

Correlation between plant communities and the reaction and micro-flora of the soil in south central Texas. Ecology 12: 497-527. Jl.1931. no.3.

Mulvania, M.

Ecological survey of a Florida scrub. Ecology 12: 528-540. illus. Jl.1931. no.3.

Faserforsch. (Leipzig)

Reko, V. A.

Der gegenwärtige zustand der Agave-(Henequen-quen-) Kultur in Yucatan. Faserforsch. 9: 118-127. Je.20, 1931. no.2.

Flora (Jena)

Goebel, K.

Pteridologische notizen. 2. Neotenie und sporophyllvariation bei Ancimia. Flora 125(n.s. 25): 457-471. illus. 1931. no.3/4.

Flora (cont.)

Landmann, A.
Beiträge zur kenntnis der verwandtschaftsverhältnisse einiger farngattungen. Flora 125 (n.s.25): 359-426. illus. 1931. no.3/4.

Liebig, J.
Ergänzungen zur entwicklungsgeschichte von Isoëtes lacustre L. Flora 125(n.s.25): 321-358. illus., pl. i-iii. 1931. no.3/4.

Troll, W.
Botanische mitteilungen aus den tropen. II. Zur morphologie und biologie von Enhalus acoroides (Linn. f.) Rich. III. Dictyotopsis propagulifera W. Troll, eine neue brackwasseralgae ostindischer mangrovegebiete. Flora 125(n.s. 25): 427-456, 474-502. illus. 1931. no.3/4.

Veh, R. von
Umkehrung der spirotrophie bei Cordyline? Flora 125(n.s.25): 472-473. 1931. no.3/4.

Flor. Rev. (Chicago)

Dr. Per Alex Rydberg. Flor. Rev. 79(14): 31. Ag.1, 1931. no.14.
Notice of death.

Fortschr. Landw. (Vienna)

Werneck, H. L.
Neue wege zur bekämpfung der blattfleckenkrankheit der zuckerrübe. Fortschr. Landw. 6: 454-456. Jl.15, 1931. no.14.

Gard. Chron. (London)

Craig, W. N.
Albert Cameron Burrage. Gard. Chron. III, 90: 60. Jl.18, 1931. no.2325.

Friend, H.
Horticulture in relation to commerce. XI. Nuts of more recent days. Gard. Chron. III, 90: 51-52. J 1.18, 1931. no.2325.

Hall, A. D.
Polyploidy in tulips. Gard. Chron. III, 90: 30. Jl.11, 1931. no.2324.

Gard. Chron. (cont.)

Holmes-Smith, E.
Control of club-root and root maggot of Brassicae. Gard. Chron. III, 90: 35-36. illus. Jl.11, 1931. no.2324.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 90: 29. illus. Jl.11, 1931. no.2324.

Stearn, W. T.
The hostas or funkias. A revision of the plantain lilies. Gard. Chron. III, 90: 27,47-49. illus. Jl.11,18, 1931. no.2324, 2325.

Viburnum plicatum. Gard. Chron. III, 90: 41. Jl.18, 1931. no.2325.
The behaviour of garden plants. IV.

Ward, F.K.
The Rossevelt expedition in French Indo-China. XIX. Singapore to Penang. Gard. Chron. III, 90: 50-51. illus. Jl.18, 1931. no.2325.

Gard. Bull. Straits Settlem. (Singapore)

The medical book of Malayan medicine. Translated by Inche' Ismail, Munshi, possibly in Penang, circa 1886. Now edited with medical notes by J.D. Gimlette and determinations of the drugs by I.H. Burkill. Gard.Bull.Straits Settlem. 6: 323-326. O.1930 (Rec'd F. 1931) no.11/15.

Gartenw. (Berlin)

Laubert, R.
Neue pilzkrankheit der rosenzweige. Gartenw. 35: 382-384. illus. Jl.10, 1931. no.28.
Myxosporium vogelii n. sp. (no description)

Genetica (The Hague)

Buchinger, A.
Die zusammenhange zwischen saugkraft und plasmatischer vererbung. Genetica 12: 539-561. illus. 1930. no.6.

Huskins, C. L.
The origin of Spartina townsendii. Genetica 12: 531-538. illus. 1930. no.6.

Hereditas (Lund)

Clausen, J.
Cyto-genetic and taxonomic investigations on Melanium violets. Hereditas 15: 219-308. illus. 1931. no.3.

Levan, A.
Cytological studies in Allium. A preliminary note. Hereditas 15: 347-356. 1931. no.3.

Nilsson, N. H.
Sind die induzierten mutanten nur selektive erscheinungen? Hereditas 15: 320-328. 1931. no.3.

Nilsson, N. H.
Ueber das entstehen eines ganz cinerea-ähnlichen typus aus dem bastard Salix viminalis x caprea. Hereditas 15: 309-319. illus. 1931. no.3.

Turesson, G.
The geographical distribution of the alpine ecotype of some Eurasiatic plants. Hereditas 15: 329-346. illus. 1931. no.3.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)

Winterstein, A.
Untersuchungen in der saponinreihe. Hoppe-Seyl. Zeitschr. Phys. Chem. 199: 25-80. Je.26, 1931.
I. Ueber das saponin der rosskastanien, von A. Winterstein. II. Ueber das saponin der seifennüsse, von A. Winterstein und Jean Mayer. III. Methode zum nachweis einer doppelbindung in sapogeninen, von A. Winterstein und Willy Wiegand. IV. Ueber ein sapogenin aus Viscum album, von A. Winterstein und Walter Hämmerle. V. Ueber das guajacsaponin und ein saponin aus Calendula officinalis, von A. Winterstein und G. Stein. VI. Katalytische hydrierung der doppelbindung im hederagenin, von A. Winterstein und G. Stein.

Ital. Agr. (Milan)

Crisci, P.
Sugli attuali rimedi contro l'oidio della vite con speciale riguardo agli zolfi greggi. Ital. Agr. 68: 399-413. illus. Je. 1931. no.6.

Jahrb. Wiss. Bot. (Leipzig)

Harder, R., Filzer, P. & Lorenz, A.
Ueber versuche zur bestimmung der kohlensäureassimilation immergrüner wüstenpflanzen während der trockenzeit in Beni Unif (algerische Sahara). Jahrb. Wiss. Bot. 75: 45-194. illus. 1931. no.1.

Urban, O.
Beiträge zur kenntnis der stickstoffassimilation von Chlorella und Scenedesmus. Jahrb. Wiss. Bot. 75: 1-44. illus. 1931. no.1.

Journ. Amer. Pharm. Assoc. (Easton, Pa.)

Harwood, A.A.
Monarda punctata, L. Journ. Amer. Pharm. Assoc. 20: 631-637. Jl.1931. no.7.
Phytochemical notes no. 106.

Journ. Amer. Soc. Agron. (Geneva, N.Y.)

Garber, R. J.
Inbreeding with particular reference to maize. Journ. Amer. Soc. Agron. 23: 534-548. Jl.1931. no. 7.

Halperin, M.
The occurrence of normal (unproliferated) florets in Poa bulbosa in the United States. Journ. Amer. Soc. Agron. 23: 511-515. illus. Jl.1931. no.7.

Jorgenson, L.R.
Brown midrib in maize and its linkage relations. Journ. Amer. Soc. Agron. 23: 549-557. Jl. 1931. No. 7.

Journ. Bot. (London)

Barton, W. C. & Riddelsdell, H. J.
Rubus ramosus Briggs and its allies. Journ. Bot. 69: 191-193. Jl.1931. no.823.
Rubus brittonii, n.sp.

Drabble, E. & Little, J. E.
The British veronicas of the Agrestis group. Journ. Bot. 69: 180-185. illus. Jl.1931. no.823.

Grove, W. B.
Puccinia cirsii-lanceolati Schröt. in Britain. Journ. Bot. 69: 195. Jl.1931. no.823.

Journ. Bot. (cont.)

Robyns, W.
Vangueriae gossweilerianae. (concl.)
Journ. Bot. 69: 185-191. Jl.1931. no.823.

Stephenson, T.
Dactylorchids of North Africa. (concl.)
Journ. Bot. 69: 177-180. Jl.1931. no.823.

Wolley-Dod, A.H.
A revision of the British roses. (cont.)
Journ. Bot. v.69, suppl. p. 57-64. Jl.1931. no.823.

Journ. Dept. Agr. Victoria (Melbourne)

Adam, D. B. & Pescott, R.T.M.
The control of loose smut in wheat. Journ. Dept. Agr. Victoria 29: 141-145. illus. Mr. 1931. no.3.

Journ. Gen. Physiol. (Baltimore, Md.)

Castle, E. S.
The phototropic sensitivity of phycomyces as related to wave-length. Journ. Gen. Physiol. 14: 701-711. illus. Jl.20,1931. no.6.

Journ. N.Y. Bot. Gard.

Small, J.K.
Bartram's Ixia coelestina rediscovered.
Journ. N.Y. Bot. Gard. 32: 155-161. illus. Jl. 1931. no.379.
Salpingostylis coelestina near Starke, Florida.

Swift, M. E.
"Crazed" crockery and other strange habitats of moulds. Journ. N.Y. Bot. Gard. 32: 149-154. illus. Jl.1931. no.379.

Journ. Washington Acad. Sci.

Bartram, E. B.
Additional Costa Rican mosses. II. Journ. Washington Acad. Sci. 21: 289-294. illus. Jl.19, 1931. no.13.

Berry, E.W.
A Bothrodendron from Bolivia. Journ. Washington Acad. Sci. 21: 295-298. illus. Jl.19, 1931. no.13.
B. Miltorkense.

Just. Liebigs Ann. Chem. (Berlin)
Zechmeister, L. & Cholnoky, L.v.
Untersuchungen über den paprika-farbstoff. V. Natürliche und synthetische ester des capsanthins. Just. Liebigs Ann. Chem. 487: 197-213, Jl.1, 1931. no.3.

London Nat.
Watson, W.
Brambles of Kent and Surrey (4). London Nat. 1930: 68-74. 1931.

Mitt. Biol. Reichanst. Landw. u. Forstw. (Berlin)
Werth, E.
Krankheiten und beschädigungen der kulturpflanzen im jahre 1928. Mitt. Biol. Reichsanst. Land. u.Forstw. Berlin. 41.64 p. illus. (maps) Ap. 1931.

Mitt. Deut. Landw. Ges. (Berlin)
Klinkowski, M.
Die weisstüpfligkeit der luzerne. Mitt. Deut. Landw. Ges. 46: 637-638. illus. Jl.18, 1931. no.29.

Mus. & Art. Notes. Vancouver.
Sherman, R. S.
The ecology of Savary Island. Mus. & Art. Notes Vancouver 6: 1-13. illus. Mr.1931. no.1.

Wailes, G. H.
Munday Lake and its ecology. Mus. & Art. Notes Vancouver 5: 92-105, pl. i-ii. S.1930; 6: 34-38. 1 pl. Mr.1931. no.3.1.

Nature, (London)
Dillon Weston, W. A. R.
Effect of light on urediniospores of black stem rust of wheat, Puccinia graminis tritici. Nature 128: 67-68. Jl.11, 1931. no.3219.

Dr. Karl Bolaăr. Nature 128: 59. Jl.11, 1931. no.3219.
Notice of death.

Nauk Zapiski Istukr. Promislov. Kiiv.

Orlovsky, N.
Deiaki dani do biologichnogo vivchennia listovogo aparatu u tsukrovikh buriakiv (Beiträge zur frage über ein biologisches studium des blätterapparates bei der zuckerrübe). Nauk. Zapiski Istukr. Promislov Kiiv 12: 215-246. 1931. no.1/2.
Ukrainian with German summary.

Samiilenko, D. Ia.
Dinamika protesecu dikhannia dvokh sortiv ozimoi pshenitsi (Energy of respirative processes of two kinds of winter wheat). Nauk Zapiski Istukr. Promislov. Kiiv. 12: 179-193. illus. 1931. no.1/2.
Ukrainian with English summary.

Sinitskii, N.
K voprosu o znachenii nematod, zhivyshchikh v zagnivaiushchoi svekle (The problem of nematodes on rotted beet). Nauk. Zapiski Istukr. Promislov Kiiv 12: 171-178. illus. 1931. no.1/2.
Ukrainian with English summary.

Nederl. Kruidk. Arch. (Amsterdam)

Danser, B. H.
Tapinanthus oedostemon: a new African Loranthacea. Nederl. Kruidk. Arch. 1931: 167-169. illus. no.1.

Danser, B. H.
Zur polymorphie des Polygonum lapathifolium. Nederl. Kruidk. Arch. 1931: 100-125. no.1.

Jansen, P. & Wachter, W. H.
Aegilops L. Nederl. Kruidk. Arch. 1931: 126-148. illus. no.1.
Floristische aanteekeningen XXVIII.

Jansen, P. & Wachter, W. H.
Floristische aanteekeningen XXIX. Nederl. Kruidk. Arch. 1931: 170-176. no.1.

Kloos, A. W., Jr.
Aanwinsten van de Nederlandse flora in 1930. Nederl. Kruidk. Arch. 1931: 149-166. no.1.

New Flora & Silva. (London)

Bunyard, E.A.
The strawberry: its history and culture.
New Flora & Silva 3: 256-264. Jl.1931. no.4.

Coutts, H., Hay, T. & Millard, F. W.
The successful transport of living plants from overseas. New Flora & Silva 3: 280-285. Jl.1931. no.4.
I. Plants from the tropics, by J. Coutts. II. Plants or seeds? by T. Hay. III. Plants from America, by F. W. Millard.

Cowan, J. M.
The fortunes of a botanist on the Persian frontier. New Flora & Silva 3: 219-227. f. lxxviii-lxxxii. Jl.1931. no.4.

Cox, E.H.M.
Primula notes. New Flora & Silva 3: 286-289. Jl. 1931. no.4.

Grove, A.
Lilium pomponium. New Flora & Silva 3: 244-251. f. lxxxvi-lxxxviii. Jl.1931.

Jackson, A. B.
Some Chinese conifers. New Flora & Silva 3: 252-255. f. lxxxix-xc. Jl.1931. no.4.
Abies.

Johnson, A. T.
Notes on daphnes. New Flora & Silva 3: 228-233. Jl.1931. no.4.

Millard, F. W.
Pentstemons for the rock garden. New Flora & Silva 3: 265- 269. f. xciii-xcvi. Jl.1931. no.4.

Saunders, A. P.
Some Asiatic peonies. New Flora & Silva 3: 234-243. f. lxxxiii-lxxxv. Jl.1931. no.4.

New Zeal. Journ. Agr. (Wellington)

Levy, E.B. & Maddon, E. A.
Weeds in lawns and greens. Competition effects and control by treatment with chemical sprays. New Zeal. Journ. Agr. 42: 406-421. illus. Je.20, 1931. no.6.

Philipp. Agr. (Los Banos)

Stevens, F.L. & Mendiola, V. B.
Aecioid short cycle rusts of the Philippine Islands. Philipp. Agr. 20: 3-17. illus. Je. 1931. no.1.
Endophyllum blumeae, E. kaernbachii, E. paederiae, E. superficiale, E., cassiae (new comb.)

Proc. California Acad. Sci.

Setchell, W.A. & Gardner, N. L.
Marine algae of the Revillagigedo Islands expedition in 1925. Proc. California Acad. Sci. 19: 109-192. pl.4-15. D.30, 1930 (Rec'd Jl.1931) no.11.

Proc. Hawaiian Sugar Plant. Assoc.

Martin, J. P.
Pathology. Rep. Comm. Exp. Stat. Hawaiian Sugar Plant Assoc. 1929/30: 35-49. 1930 (With Proc. Hawaiian Sugar Plant Assoc. 50th, 1930)

Proc. Linn. Soc. N.S.W. (Sydney)

Anderson, R. H.
Notes on the Australian species of the genus Atriplex. Proc. Linn. Soc. N.S.W. 55: 493-505. pl. xviii. D.1930(Rec'd Jl.1931) no.5(231)
A. spinibractum, A. acutibractum, A.morrisii, n.spp.

Blakeley, W.F. & McKie, E.N.
Additions to the flora of New England, N.S.W. Proc. Linn. Soc. N.S.W. 55: 587-593. pl.xxix-xxx. D. 1930 (Rec'd Jl.1931) no.5(231)
Grevillea sarmentosa, Aotus subglauca, Eucalyptus codonocarpa, E. youmani, E. tinghaensis n. spp.

Blakely, W. F.
Another new species of Eucalyptus from New England. Proc. Linn. Soc. N.S.W. 55: 594-595. pl. xxxi. D.1930 (Rec'd Jl.1931) no.5(231)
Eucalyptus mckieana, n.sp.

Carey, G.
The leaf-buds of some woody perennials in the New South Wales flora. Proc. Linn. Soc. N.S.W. 55: 708-737. illus. D.1930(Rec'd Jl.1931) no.5(231)

Proc. Linn. Soc. N.S.W. (cont.)

Cheel, E.
A review of the myrtle family (Myrtaceae). In his Presidential address. Proc. Linn. Soc. N.S.W. 56: vi-xv. Ap.1931. no.1(233)

Jensen, H.L.
Notes on a cellulose-decomposing soil fungus of an unusual character. Proc. Linn. Soc. N.S.W. 55: 699-707. pl.xl. D.1930(Rec'd Jl. 1931)
Probably a Botryosporium.

Sargent, O. H.
Xerophytes and xerophily. With special reference to protoad distribution. Proc. Linn. Soc. N.S.W. 55: 577-586. D.1930(Rec'd Jl.1931) no.5(231)

Waterhouse, W.L.
Australian rust studies. III. Initial results of breeding for rust resistance. Proc. Linn. Soc. N.S.W. 55: 596-636. pl. xxxii-xxxiv. D.1930. (Rec'd Jl.1931) no.5(231)

Proc. Roy. Soc. Ser. B. (London)

Dickinson, S.
Experiments on the physiology and genetics of the smut fungi. Cultural characters. II. The effect of certain external conditions on their segregation. Proc. Roy. Soc. Ser. B, 108: 395-423. Jl.1, 1931. no.758.

Keeble, F., Nelson, M.G. & Snow, R.
The integration of plant behaviour. II. The effect of gravity on the growth of roots. Proc. Roy. Soc. Ser. B, 108: 360-365. Jl.1, 1931. no. 758.

Moffett, A.A.
The chromosome constitution of the Pomoideae. Proc. Roy. Soc. Ser. B. 108: 423-446. illus., pl.17. Jl.1, 1931. no.758.

Proc. Roy. Soc. Victoria. (Melbourne)

Barrett, A.O. & Green, H.
The seasonal sap flow of Eucalyptus botryoides. Proc. Roy. Soc. Victoria n.s. 43: 241-250. F.1931. no.2.

Proc. Roy. Soc. Victoria (cont.)

Heyward, J.

Flowering periods of Victorian plants. Proc. Roy. Soc. Victoria n.s., 43: 154-165. F.1931. no.2.

Protoplasma (Leipzig)

Chambers, R. & Höfler, K.

Micrurgical studies on the tonoplast of Allium cepa. Protoplasma 12: 338-355. illus., pl. 5-7. Mr.1931. no.3.

Cholnoky, B.v.

Untersuchungen über den plasmolyse-ort der algenzellen. III. Die plasmolyse der ruhenden zellen der fadenbildenden konjugaten. Protoplasma 12: 321-337. illus. Mr.1931. no.3.

Prát, S.

Kristalline farbstoffspeicherung bei vitalfärbung. Protoplasma 12: 399-401. illus. Mr.1931. no.3.

Prát, S.

Ueber vitalfärbung der meeres-cyanophyceen. Protoplasma 12: 397-398. Mr.1931. no.3.

Prát, S.

The vital staining of cell walls. Protoplasma 12: 394-396. Mr.1931. no.3.

Report. Spec. Nov. Beih. (Dahlem)

Beitrage zur systematik und pflanzengeographie VIII. Report. Spec. Nov. Beih. 62. 175 p. xvii pl. (incl. maps) My.1931.

Die geschichte der floristik in Thüringen, von K. Wein. - Die älteste einführungs-und einbürgerungsgeschichte der nordamerikanischen vertreter der gattung Oenothera, von K. Wein. - Die mitteldeutsche steppenheide, von E. Kaiser - Ein massenauftreten von baumverbiegungen im Elstertal bei Greiz, von W. Wächtler. - Ein beitrag zur geographie der Luzerne, von M. Klinowski - Meine arbeiten zur florenkunde und zum naturschutze, von T. Schube - Ein eigenartiger hainbuchenbestand in der umgebung von Bremen, von H. Pfeiffer - Dritter bericht uber die pflanzengeographische kartierung Deutschlands, von J. Mattfeld. - Die schneegruben des Riesengebirges als naturschutzgebiet, von W. Limpricht.

Repert. Spec. Nov. Beih. (cont.)
Peter, A.
Flora von Deutsch-Ostafrika. 3. lfg. Repert. Spec. Nov. Beih. v.40, lfg. 3. p.209-336. pl. xviii-xl. Ap.1931.

Report. Prov. Mus. Nat. Hist. Brit. Columbia.
St. John, H.
Reduction of Olysinium. Rep. Prov. Mus. Nat. Hist. Brit. Columbia 1930: C11-C13. pl.x-xi. 1931.
Sisyrinchium douglasii, S. inflatum (n.comb.)

Rep. Work Agr. Res. Inst. Gt. Brit.
Gt. Brit. Ministry of agriculture & fisheries.
Entomology and plant pathology. Its Reports on the work of agricultural research institutes....1292/30: 99-111. 1931.
Plant pathological laboratory, Ministry of agriculture and fisheries. - Potato virus research station, Cambridge university - Silverleaf disease investigations, Cambridge university - Plant pathological laboratory, Dept. of agriculture for Scotland - Seed testing and plant diseases division, Ministry of agriculture, Northern Ireland.

Rev. Bot. Appl. (Paris)
Aubréville, A.
Les Entandrophragma de la Côte d'Ivoire. Act. Compt. Rend. Assoc. Colon. Sci. 7: 121-129. Je. 1931. (with Rev. Bot. Appl. v.11,no.118) Je. 1931. no.118.

Camus, A.
L'identification du "ble des pagodes". Rev. Bot. Appl. 11: 457. Je. 1931. no.118.
Cymbopogon caesius.

Chevalier, A. & Normand, D.
Quelques légumineuses de la Côte d'Ivoire à bois utilisable. Rev. Bot. Appl. 11: 397-409. illus. Je.1931. no.118.

Chodat, F.
Problèmes d'atmométrie. Rev. Bot. Appl. 11: 230-235, 342-348, 424-435. illus. Ap., My., Je.1931. no.116, 117, 118.

Rev. Bot. Appl. (cont.)

Navarro de Andrade, E.
Les eucalyptus comme arbres de reboisement pout les pays tropicaux et subtropicaux. Rev. Bot. Appl. 11: 416-423. Je. 1931. no.118.
Transl. by J. Meiller.

Rev. Bryol. (Caen)

Allorge, P.
Notes sur la flore bryologique de la Péninsule Ibérique, VI. Muscinées de la province de Burgos récoltées par le frère Sennen. VII. Le Pleurochaete squarrosa (Brid.) Lindb. c. sp. au Portugal. Rev. Byrol. n.s., 3: 193-201. Ap. 30, 1931. no.4.

Allorge, P.
Le Pasteur Sigfrid Olof Medelius (1878-1930). Rev. Bryol. n.s. 3: 217. Ap.20, 1921. no.4.

Allorge, V. G. & Allorge, P.
René Viguier (1880-1931). Rev. Bryol. n.s. 3: 216-217. Ap.30, 1931. no.4.

Amann, J.
Anomobryum cuspidatum subsp. nova. Rev. Bryol. n.s., 3: 166-170. illus. Ap.30, 1931. no.4.

Györffy, I.
Zum andenken an Joannes Hedwig am zweihundertsten jahreswechsel seiner geburt. Rev. Bryol. n.s., 3: 161-165. illus., pl. vi-vii. Ap.30, 1931. no.4.

Hillier, L.
Les funariacées dans la région inférieure des monts Jura. Rev. Bryol. n.s., 3: 188-192. Ap.30,1931. no.4.

Meylan, C.
Variétés nouvelles. Rev. Bryol. n.s., 3: 186-188. Ap.30, 1931. no.4.
Eurhynchium tommasini var. alpinum, Cratoneuron sulcato-irrigatum, Orthotrichum alpestre var. engadinense.

Rev. Bryol. (cont.)

Potier de la Varde, R.

Notes sur quelques Fissidens rares ou critiques. Rev. Bryol. n.s., 3: 170-180. illus. Ap.30, 1931. no. 4.

Thériot, I.

Mousses de l'Annam. III. Rev. Bryol. n.s., 3: 181-185. illus. Ap.30, 1931. no.4.

Macromitrium evrardi, Garovaglia squarrosa, Microthamnium evrardi n.spp.

Rev. Gén. Bot. (Paris)

Chauveaud, G.

Le "bois centripète" des cycadees est une formation spéciale acquise, par ces plantes, au cours des ages et surajoutee à l'appareil conducteur typique. Rev. Gen. Bot. 43: 191-192. My. 1931. no.509.

Douin, R.

Sur le gamétophyte et l'inflorescene du Chiloscyphus polyanthus Corda. Rev. Gén. Bot. 43: 169-176. illus. My.1931. no.509.

Reilhes, R.

Effets de la concentration de l'iode sur la coloration de l'amidon. Rev. Gen. Bot. 43: 177-190. My.1931. no.509.

Rev. Inst. Agr. d'Oka.

Cyrille,

Les légumes du jardin potager. Classification et description. Rev. Inst. Agr. d'Oka 5: 130-137. Jl./Ag.1931. no.4.

Riv. Ital. Essen. e Profumi (Milano)

Ajon, G.

Aspetti chimici del malsecco. Riv. Ital. Essen. e Profumi 13: 223-224. Jl.15, 1931 no.7.

Sci. Rep. Tohoku Imp. Univ. 4. Ser. (Biol.) (Sendai)

Hiramatsu, K.

On the gaseous exchange in Synedra sp. Sci. Rep. Tohoku Imp. Univ. 4 Ser. (Biol.) 6: 237-250. illus. Jo.1931. no.2.

Sci. Rep. Tohoku Imp. Univ. 4. Ser. (Biol.) (cont.)

Jimbo, T.
On the daily fluctuation of the osmotic value in plants. Sci. Rep. Tohoku Imp. Univ., 4 Ser. (Biol.) 6: 285-306. Je. 1931. no.2.

Kimura, A.
Contributiones ad salicologiam Japonicam. IV. Sci. Rep. Tohoku Imp. Univ., 4. Ser. (Biol.) 6: 185-197. Je.1931. no.2.
S. kamikotica, S. sendaica n.spp.

Tomita, K.
Ueber die entwicklung des nackten embryos von Crinum latifolium L. Sci. Rep. Tohoku Imp. Univ., 4. Ser. (Biol.) 6:163-169. illus. Je.1931. no.2.

Tamano, Y.
On the morphology and physiology of Fomes applanatus (Fr.) Gill. and its allies. Sci. Rep. Tohoku Imp. Univ., 4, Ser. (Biol.) 6: 199-236. pl. iv-vii. Je.1931. no.2.

Yoshii, Y. & Hayasi, N.
Botanische studien subalpiner moore auf vulkanischer asche. Sci. Rep. Tohoku Imp. Univ., 4. Ser. (Biol.) 6: 307-345. illus., pl. viii-xi. Je. 1931. no.2.

Yoshii, Y. & Jimbo, T.
Untersuchungen über die osmotischen werte bei pflanzen auf dem berg Hakkôda. Sci. Rep. Tohoku Imp. Univ., 4. Ser. (Biol.) 6: 259-283. Je. 1931. no.2.

Scient. Agr. (Ottawa)

Berkleley, G. H., Madden, G. O. & Willison, R. S.
Verticillium wilts in Ontario. Scient. Agr. 11: 739-759. illus. Jl. 1931. no.11.

Scient. Amer. (N. Y.)

Crane, H. R. & Thurston, E. W.
And now, it's seaweed. Kelp from the Pacific Coast may supply elements which are now lacking in our diet. Scient. Amer. 145: 108-109. illus. Ag.1931. no.2.

Scient. Month. (Lancaster, Pa.)
MacDougal, D. T.
The thirst of plants. Scient. Month. 33: 171-173. Ag.1931. no.2.

Sci. Proc. Roy. Dublin Soc.
Linehan, P.A. & Mercer, S. P.
A method of distinguishing certain strains of New Zealand perennial ryegrass (Lolium perenne, L.) by examination of seedlings under screened ultra-violet light. Sci. Proc. Roy. Dublin Soc. 20: 75-83. pl. i. My. 1931. no.7.

Scott. Geogr. Mag.
Chipp, T. F.
The vegetation of northern tropical Africa. Scott. Geogr. Mag. 47: 193-214. illus. (incl. maps), pl.i-ii. Jl.15, 1931. no.4.

Scott. Journ. Agr. (Edinburgh)
Davey, V. M.
Colour inheritance in swedes and turnips and its bearing on the identification of commercial stocks. Scott. Journ. Agr. 14: 303-316. Jl. 1913. no.3.

Sitzungsb. Naturh. Ver. Preuss. Rheinl. u. Westf. (Bonn)
Müller, J.
Zur flora des bergischen Landes. Sitzungsb. Naturh. Ver. Preuss. Rheinl. u. Westf. 1929: 9-16. illus. (map) 1931.

Sitzungsb. Preuss. Akad. Wiss. (Berlin)
Correns, C.
Vererbungsversuche mit buntblättrigen sippen. VIII. Nochmals Stellaria media status albomaculatus. IX. Hypericum perforatum status paralbomaculatus. X. Primula malacoides forma albomarginata. XI. Coleus hybridus forma (?) albopicta. Sitzungsb. Preuss. Akad. Wiss. 1931: 203-231. illus.

Trans. Indiana Hort. Soc.
Auchter, E. C.
Factors influencing the size and color of fruit. Trans. Indiana Hort. Soc. 1930: 45-47. [1931]

Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci URSS) (Leningrad)

Andreev, V. N.
Material k flore severnogo Kanina (Matériaux pour la flore de la presqu'il Kanine). Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23: 147-196. illus. (map) 1931.
Russian.

Busch, E.
Novi vid roda Eleutherospermum C. Koch s Kavkaza (Une espece nouvelle du genre Eleutherospermum C. Koch du Caucase). Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23: 229-232. illus. 1931.
Russian with Latin diagnosis (E.rubellum)

Busch, N. A.
K istorii rastitel'nosti Balkarii (v tsentral'nom Kavkaze) (Zur geschichte der vegetation Balkariens) (im Zentralkaukasus). Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23:1-21. ii pl. 1931.
Russian with German summary.

Sambuk, F. V.
Osnovyne tipy lugov v poime srednei Pechory (Grundtypen der alluvialwiesen der mittleren Petschora). Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23: 23-145. illus., vii pl., tab. 1931.
Russian with German summary

Tolmachev, A. I. & Blumental, I.Kh.
Materialy dlia flory Novoi Zemli (Matériaux pour la flore de la Nowaia Zemlia). Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23: 197-209. illus. (map) 1931.
Russian.

Tolmachev, A. I.
Ob odnoi pribaikal'skoi forme Sibirskogo maka (Papaver nudicaule L.) Sur une nouvelle forme baikalienne du pavot sibirien (Papaver nudicaule L.) Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23: 219-221. illus. 1931.
Russian with Latin diagnosis (P. nudicale baicalense).

Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) (Cont.)

Tolmachev, A. I.
Ob odnom kriticheskom vide roda Draba iz tsikla D. alpina (Sur une espèce critique du genre Draba du cycle Draba alpina) Trudy Bot. Mus. Akad. Nauk SSSR (Trav. Mus. Bot. Acad. Sci. URSS) 23: 223-228. illus. 1931.
Russian.

Tolmachev, A. I.
Obzor sosudistykh rasteniĭ ostrova Sibiriakova v Eniseĭskoma zalive (Aperçu des plantes vasculaires de l'île Sibiriakoff (golfe de Jénissei). Trudy Bot. Mus. Akad. Nauk SSSR(Trav. Mus. Bot. Acad. Sci. URSS) 23: 211-218. illus. 1931.
Russian.

U. S. Dept. Agr. Circ.

Dachnowski-Stokes, A. P.
Moss peat, its uses and distribution in the United States. U. S. Dept. Agr. Circ. 167. 11 p. illus. Je. 1931.

Univ. Calif. Publ. Bot. (Berkeley)

Belling, J.
Chiasmas in flowering plants. Univ. Calif. Publ. Bot. 16: 311-338. illus. 1931. no.8.

McKay, J. W.
Chromosome studies in the Cucurbitaceae. Univ. Calif. Publ. Bot. 16: 339-350. illus. 1931. no.9.

Yamada, Y.
Notes on Laurencia, with special reference to the Japanese species. Univ. Calif. Publ. Bot. 16: 185-250. illus., pl. 1-30. 1931. no.7.

Univ. Iowa Studies Nat. Hist. (Iowa City)

Kelley, A. P.
Studies in Iowa plant-life, I. The genera Equisetum, Quercus, Amelanchier and Fraxinus in the Okoboji flora. Univ. Iowa Studies Nat. Hist. 13: 11-19. Je.15, 1931. no.5.

Univ. Iowa Studies Nat. Hist. (cont.)

Kelley, A. P.
The water supplying capacity of prairie soil, as indicated by observations on a virgin prairie in northwestern Iowa. Univ. Iowa Studies Nat. Hist. 13: 20-32. Je.15, 1931. no.5.

Martin, G. W.
Notes on Iowa fungi, 1929-30. Univ. Iowa Studies Nat. Hist. 13: 1-10. pl. i. Je.15, 1931. no. 5.

Verh. Naturh. Ver. Preuss. Rheinl. u. Westf.

Bonte, L.
Beiträge zur adventivflora des rheinisch-westfälischen industriegebietes. Verh. Naturh. Ver. Preuss. Rheinl. u. Westf. 86(1929): 141-250. 5 pl. on 3. 1930 (Rec'd Jl. 1931)

Budde, H.
Pollenanalytische untersuchung des moores am bahnhof Erndtebrück. (Dritter beitrag zur waldgeschichte des Sauerlandes) Verh. Naturh. Ver. Preuss. Rheinl. u. Westf. 86(1929): 129-137. illus. 1930. (Rec'd Jl. 1931)

Scheuermann, R.
Mittelmeerpflanzen der güterbahnhöfe des rhein.-westf. industriegebietes. Verh. Naturh. Ver. Preuss. Rheinl. u. Westf. 86(1929): 256-342. 1930. (Rec'd Jl. 1931)

Visnik Kiivsk. Bot. Sadu. (Bull. Jard. Bot. Keiff)

Bordzilovs'ki, E. I.
Zamitka pro Eleutherospermum grandifolium C. Koch. (De Eleutherospermo grandifolio C. Koch specie restituenda). Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 99-103. 1930 (Rec'd Jl. 1931)
Ukrainian with Latin diagnosis.

Finn, W. & Rudenko, T.
Spermatogenesis und befruchtung bei einigen Orobanchaceae. Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 69-82. 2 pl. 1930(Rec'd Jl. 1931)

Fomin, A.
Ueber die Anogramma makinoi H. Christ. Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11:8-9. 1930 (Rec'd Jl. 1931)
Pleurosoriopsis gen. nov. (P.makinoi)

Visnik Kiivsk. Bot. Sadu. (Bull. Jard. Bot. Kieff) (cont.)

Kleopov, Iu. D.
Pro Mariupil'sku fl'oru v zviazku z reliktovim pitanniam na Ukraini (Ueber die flora von Mariupol unter berücksichtigung der reliktenfrage in der Ukraine). Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11:21-40. 1930 (Rec'd Jl. 1931)
Ukrainian with German summary.

Kostricukoff, X.
Cellules mâles dans le Scirpus lacustris L. Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 10-17. pl. 1930 (Rec'd Jl. 1931)

Kravchenko, R. T.
Pist chuzhozemnikh derevnikh porid na Golosievs'komu rozsadnikovi K.S.-G.I. (Croissance d'arbres exotiques dans la pepiniere de Golossieff). Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 83-98. illus. 1930 (Rec'd Jl. 1931)
Ukrainian with German summary.

Oksner, A. N.
Novi i malovidomi vidi obrisnikiv dlia USSR (Neue und wenig bekannte flechtenarten in der U. S. S.R.) Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 56-68. 1930(Rec'd Jl. 1931)
Ukrainian with German summary.

Radde-Fomin, O.
Ivan Parfenovich Borodin. Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 3-7. port. 1930 (Rec'd Jl. 1931)
Russian.

Radde- Fomin, O.
Spisok roslin shcho ikh zibrav B. M. Klopotov na Poltavshchini r. 1920 (Plantes recoltees par M. B. Klopotoff dans le gouvernment de Poltawa). Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 18-20. 1930 (Rec'd Jl. 1931)
Ukrainian with German summary.

Rudenko, T. E.
Male cells of Scrophulariaceae. Spermatogenesis and fertilization by Lathraea squamaria L. Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 41-55. pl. 1930(Rec'd Jl. 1931)

Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) (cont.)
Vovchanets'kii, V.
Rostovi koreliatsii v roslin u svitli nauki pro gormoni (Correlations de croissance ses plantes en elucidation de la theorie hormonale) I. Correlations entre les organes vegetatifs. Visnik Kiivsk. Bot. Sadu (Bull. Jard. Bot. Kieff) 11: 105-119. illus. 1930(Rec'd Jl. 1931)
Ukrainian.

Zeitschr. Indukt. Abstamm. u. Vererbungsl. (Leipzig)
Imai, Y.
Linkage studies in Pharbitis nil. II. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 58: 317-331. illus. 1931. no.3/4.

Laibach, F.
Weitere untersuchungen über entwicklungsphysiologische unterschiede zwischen lang-und kurzgriffeln von Linum austriacum L. (cont.) Zeitschr. Indukt. Abstamm. u. Vererbungsl. 58: 393-402. 1931. no.3/4.

Noack, K. L.
Ueber eine buntblättrige form von Borrago officinalis. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 58: 372-392. illus. 1931. no.3/4.

Rudloff, C. F.
Zur polarisation in der reduktionsteilung heterogamer Oenotheren. I. Die embryosack-entwicklung und ihre tendenzen. Zeitschr. Indukt. Abstamm. u. Verergungsl. 58: 422-433. 1931. no.3/4.

Zentralbl. Bakt. Abt. I. (Jena)
Karamboloff, N.
Beiträge zur kenntnis der fungi imperfecti. Zentralbl. Bakt. Abt. I, 84: 86-100. illus., 1 pl. Je. 29, 1931. no. 1/7.
Ueber eine auf weintrauben vorkommende garungsmonilia Oospora uvarum sp.n.

Exper. Stat. Publ.
California agricultural experiment station
Plant pathology. In its Report 1929/30: 83-85. 1931.

Exper. Stat. Publ. (cont.)

California agricultural experiment station - Citrus experiment station.
Plant pathology. In its Report. 1929/30: 43-46. 1931.

Wilde, E. I.
Studies of the genus Delphinium. Cornell Agr. Exp. Stat. Bull. 519. 107 p. illus. Ap. 1931 (Rec'd Jl.)

Jenkins, M. T. & Gerhardt, F.
A gene influencing the composition of the culm in maize. Iowa Agr. Exp. Stat. Res. Bull. 1930: 125-151, incl. 5 pl. My.1931(Rec'd Jl.)

Shaw, J. K. & French, A. P.
The idenfification of apple varieties from non-bearing trees. Massachusetts Agr. Exp. Stat. Bull. 274: 56-87. incl. 14 pl. on 7. Ap. 1931.

Fleming, C. E., Miller, M. R. & Vawter, L. R.
The fitweed (Capnoides caseana). A poisonous range plant of the northern Sierra Nevada mountains. Nevada Agr. Exp. Stat. Bull. 121. 28 p. illus. Ap. 1931 (Rec'd Jl.)

New Jersey agricultural experiment station - Dept. of plant patholoty.
Diseases of Hedera helix. Its Nursery Dis. Notes, v.4, no.1. 4 p. Jl. 1931.

Gloyer, W. O.
China aster seed treatment and storage. New York Agr. Exp. Stat. Tech. Bull. 177. 41 p. illus. Je. 1931.

Bamford, R. & Gershoy, A.
Studies in North American violets. II. Vermont Agr. Exp. Stat. Bull. 325. 53 p. pl.i-xxii. D.1930. (Rec'd Jl. 1931)
II. The cytology of some sterile F1 violet hybrids.

Heald, F. D. Y Ruehle, G. D.
The rots of Washington apples in cold storage. Washington Agr. Exp. Stat. Bull. 253. 48 p. illus. My. 1931. (Rec'd Jl. 1931)

State Publications.

Ball, W. S., Madson, B. A. & Robbins, W. W.
The control of weeds. California Agr. Ext. Serv. Circ. 54. 68 p. illus. Je.1931.

Barrus, M. P.
Pear diseases and their control. In Peck, G. W. Important considerations in pear production Cornell Ext. Bull. 203: 17-33. illus. Ja.1931. (Rec'd My.)
Other pear diseases, by W. D. Mills: p. 30-33.

New Books.

Bancroft, H. & Dickson, J.
Studies in floral anatomy. I. The nectary of Pelargonium. Oxford, B. Blackwell, 1930.

Bowman, F. & Morse, R.
Wild foods for birds and how to get them. London, [1931]

Carpentieri, F.
Trattato di viticoltura moderna. 5. ed. della "Viticoltura teorico pratica" di Ottavio Ottavi... 2 v. Casale Monf, Fratelli Ottavi, 1929-30.
Malattie della vite: v.2, p.387-643.

Gildemeister, E.
Die ätherischen öIe. 3. aufl. 3. bd. Miltitz bei Leipzig, Schimmel & Co., 1931.

Jávorka, S.
A Magyar flóra képekben (Iconographiea florae hungaricae) pt. 8. Budapest, 1931.

McClelland, C. K.
The genetics, breeding and improvement of corn and cotton. A bibliography covering more than forty years work (1889-1929) in the breeding, improvement and study of inheritance in corn and cotton, (with many abstract references). [Fayetteville, Ark., 1930]

Onslow, M. W.
The principles of plant biochemistry pt.1. Cambridge, University press, 1931.

New Books (cont.)

Roark, R. E.
Excerpts from consular correspondence relating to insecticidal and fish-poison plants, Washington, D. C., Je.1931.
Issued by U. S. Dept. of Agr., Bur. Chem. & Soils, Insecticide Div.

Sawada, K.
Descriptive catalogue of the Formosan fungi pt. 5. Rep. Dept. Agr. Gov't Res. Inst. Formosa no. 51. 131 p. 5 pl. Mr.1931.

Stomps, T. J.
Fünfundzwanzig jahre mutationstheorie. Jena, G. Fischer, 1931.

Trelease, W.
Plant materials of decorative gardening. The woody plants, 4th ed., rev. Urbana, The author, 1930.

Vuillemin, P.
Les champignons parasites et les mycoses de l'homme. Paris, P. Lechevalier, 1931 (Encyclopedie mycologique II)

Reprints from Journals not yet rec'd or not available.

Davis, W. H.
Single spore isolation. Preprint from Proc. Iowa Acad. Sci. 1930. p.151-159. 1931.

Correction.

V. 13, no.12, p.14.
3d entry author's name should be Nevskii.

p. 16.
Journ. Bot. 3d entry. author's name should be Godfery.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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LIBRARY
RECEIVED
★ SEP 2 1931 ★
U. S. Department of Agriculture

Vol. 13, no. 16. Ag.3-15, 1931.

Acta Horti Bot. Latv. (Riga)

Brukšs, Z.
Untersuchungen über die hybridogene herkunft von Potentilla procumbens Sibth. I. (Vorläufige mitteilung). Acta Horti Bot. Latv. 5: 194-198. 1930(Rec'd Je.1931) no.1/3.

Galenieks, P.
Remains of buried oak forest at the town of Daugavpils. Acta Horti Bot. Latv. 5: 61-74. 1930(Rec'd Je.1931) no.1/3.

Malta, N.
Uebersicht der moosflora des Ostbaltischen gebietes. II. Laubmoose (Andraeales et Bryales). Acta Horti Bot. Latv. 5: 75-184. illus. 1930. (Rec'd Je.1931) no.1/3.

Melderis, A.
Chromosome numbers in Umbelliferae. Acta Horti Bot. Latv. 5: 1-8. illus. 1930(Rec'd Je. 1931) no.1/3.

Ozolina, E.
Ueber die höhere vegetation des Usma-Sees. Acta Horti Bot.Latv. 6: 1-75. illus. 1931. no.1.

Starcs, K.
Dažas jaunas pundurberza (Betula nana L. em. Gunnarss.) atrodnes Latvija. Acta Horti Bot. Latv. 5: 185-192. 1930(Rec'd Je.1931) no.1/3.
German summary: (Einige neue fundorte der zwerg birke (Betula nana L. em Gunnarss.) in Lettland. p.189-192.

Starcs, K.
Ueber die verbreitung und formenkreise der gymnospermen und monocotyledonen Lettlands. Acta Horti Bot. Latv. 5: 9-60. 1930(Rec'd Je.1931) no.1/3.

Acta Horti Gothoburg.

Blom, C.
Chenopodiaceen und amarantaceen aus China, gesammelt von D:r H. Smith auf seiner zweiten reise 1924. Acta Horti Gothoburg 6: 85-88. 1931.

Blom, C.
En för sveriges flora ny hybrid, Roripa austriaca (Crantz) Bess. x silvestris (L.) Bess. Acta Horti Gothoburg. 6: 145-150. 1931.

Blom, C.
Ein neuer gartenbastard, Ribes divaricatum Dougl. x stenocarpum Maxim. (Ribes gothoburgense). Acta Horti Gothoburg. 6: 89-91. 1931.

Blom, C.
Smärre bidrag till sveriges flora. I- Acta Horti Gothoburg. 6: 151-160. illus. 1931.

Borgvall, T.
Växtgeografiska bidrag from västkustlandskapen. Acta Horti Gothoburg. 6: 37-46. 1931.

Fries, H.
Bidrag till kännedomen om floran i Göteborgs och Bohus län.5. Acta Horti Gothoburg. 6: 21-35. 1931.

Fröderström, H..
The genus Sedum L., a systematic essay. II. Acta Horti Gothoburg. 6, Append. 111 p. illus., 65 pl. on 33. 1931.

Magnusson, A. H.
New or otherwise interesting Lecanora species. Acta Horti Gothoburg. 6: 1-20. 1931.

Magnusson, A. H.
Studien über einige arten der Lecidea armeniaca und elata-gruppe. Acta Horti Gothoburg. 6: 93-144. 1931.

Pampanini, R.
Artemisiae chinenses, a Dre. H. Smith anno 1924 lectae. Acta Horti Gothoburg. 6: 79-83. 1931.

Acta Horti Gothoburg. (cont.)

Plantae sinenses, a Dre. H. S. Smith annis 1921-22 lectae. XXIV. Artemisia auctore R. Pampanini. Acta Horti Gothoburg. 6: 67-78. 1931.

Skottsberg, C.

Remarks on the flora of the high Hawaiian volcanoes. Acta Horti Gothoburg. 6: 47-65. 1931.

Anal. Mus. Nac. Hist. Nat. Bern. Rivad. Buenos Aires.

Castellanos, A.

Bromeliaceae Argentinae novae vel criticae II-III. Anal. Mus. Nac. Hist. Nat. Bern. Rivad. Buenos Aires 36: 49-57, 369-375. xv, vii pl. 1931.

Franguelli, J.

Diatomeas marinas de la costa atlántica de Miramar (Prov. de Buenos Aires). Anal. Mus. Nac. Hist. Nat. Bern. Rivad. Buenos Aires 36: 243-411. illus., x pl. 1931.

Contribuciones al conocimiento de las diatomeas argentinas VI.

Anales Soc. Cient. Arg. (Buenos Aires)

Molfino, J. F.

Notas botanicas. VII. Anales Soc. Cient. Arg. 111: 367-386. illus. Je.1931. no.6.

Agnew. Bot. (Berlin)

Bonne, C.

Untersuchungen über den steinbrand des weizens. Angew. Bot. 13: 169-209. illus. My./Je. 1931. no.3.

Ext, W.

Phytotoxische versuche mit neuartigen künstlichen nebeln, sog. säurenebeln, zur abwehr von nachtfrostschäden in baumschulen, weinbergen und sonstigen gärtnerischen kulturen. Angew. Bot. 13: 262-290. illus. My./Je. 1931. no.3.

Schulze, W.

Untersuchungen über die zellgrösse von knollen verschiedener kartoffelsorten und ihre beeinflussung durch anbaubedingungen, sowie über die beziehungen zwischen zellgrösse und stärkekorngrösse. Angew. Bot. 13: 209-260. illus. My./Je.1931. no.3.

Ann. Appl. Biol. (London)

Hughes, A.W.M.
Aphides as vectors of "breaking" in tulips.
Ann. Appl. Biol. 18: 16-29. pl.vi. F.1931. no.1.

Ann. Bot. (London)

Arber, A.
Studies in the Gramineae X. 1.Pennisetum, Setaria, and Cenchrus. 2. Alopecurus. 3. Lepturus.
Ann. Bot. 45: 401-420. illus. Jl. 1931. no.179.

Beddows, A. R.
Triodia decumbens, Beauv. (Sieglingia decumbens Bernh.) Ann. Bot. 45: 443-451. illus., pl.xvi. Jl. 1931. no.179.

Buston, H.W. & Kirkpatrick, H.F.
The pectic substances of the carrot, with references to their decomposition by Bacillus carotovorus. Ann. Bot. 45: 519-525. Jl.1931. no.179.

Chibnall, A.C. & Sahai, P. N.
Observations on the fat metabolism of leaves. I. Detached and starved mature leaves of brussels sprout (Brassica oleracea). Ann. Bot. 45: 489-502. Jl. 1931. no.179.

Crookall, R.
The horizon of "Lepidodendron harcourti".
Ann. Bot. 45: 453-460. pl. xvii. Jl.1931. no.179.

Higgins, E. M.
Note on the life-history of Cladophora flavescens, Kütz. Ann. Bot. 45: 533-534. Jl.1931. no.179.

James, W. O.
Studies of the physiological importance of the mineral elements in plants. II. Potassium: its distribution, movement, and relation to growth in the potato. Ann. Bot. 45: 425-442. illus. Jl. 1931. no.179.

Sabet, Y. S.
Development of the embryo-sac in Calotropis procera with especial reference to endosperm formation. Ann. Bot. 45: 503-518. illus. Jl.1931. no.179.

Ann. Bot. (cont.)
Sen, B.
A method for measuring the change of permeability to ions of single cells under electric stimulation. Preliminary report. Ann. Bot. 45: 527-531. illus. Jl.1931. no.179.
Experiments with Nitella.

Stiles, W. & Leach, W.
On the use of the katharometer for the measurement of respiration. Ann. Bot. 45: 461-488. illus. Jl. 1931. no.179.

Wardlaw, C. W.
The biology of banana wilt (Panama disease). III. An examination of sucker infection through root-bases. Ann. Bot. 45: 381-399. illus., pl.xv. Jl. 1931. no.179.

Wood, F. M.
Observations on the action of bromine on plant tissues. Ann. Bot. 45: 421-423. Jl. 1931. no.179.

Ann. Mus. Colon. Marseille.
Jumelle, H.
Catalogue descriptif des collections botaniques du Musée colonial de Marseille: Indochine (Plantes à sucres et à caféiques, plantes à condimente et à aromates - plantes médicinales) Ann. Mus. Colon. Marseille v.39(IV, 9) fasc. 1. 59 p. 1931.

Ann. Rep. Dept. Agr. Nyasaland. Prot.
Leach, R.
Report of the mycologist for 1930. Ann. Rep. Dept. Agr. Nyasaland Prot. 1930: 32-34. [1931?]

Ann. Rep. Florida State Geol. Surv.
Berry, E. W.
A palm nut of Attalea from the upper eocene of Florida. Ann. Rep. Florida State Geol. Surv. 21/22(1929-30): 123-125. illus. 1931.
A. gunteri n.sp.

Ann. Rep. Min. Agr. North. Ireland.
Northern Ireland. Ministry of agriculture.
Plant diseases. In Its Ann. Rep. 9(1929/30): 50-53. 1930.

Arb. Biol. Reichsanst. Land- u. Forstw. Berlin.
Wilhelm, P.
Studien zur spezialisierungsweise des weizengelbrostes, Puccinia glumarum f. sp. tritici (Schmidt) Erikss. et Henn. und zur keimungsphysiologie seiner uredorsporen. Arb. Biol. Reichsanst. Land- u. Forstw. Berlin 19: 95-133. 1931. no.1.

Arch. Koffiecult. Nederl.-Indië (Soerbaia)
Muller, H. R. A.
Snoei als middel om de verspreiding van topsterfte te remmen. Arch. Koffiecult. Nederl.-Indië. 5: 1-9. My. 1931. no.1.

Arch. Pharm. & Ber. Deut. Pharm. Ges. (Berlin)
Brand, K. & Westerburg, G.
Ueber das ätherische öl der früchte von Phellodendron japonicum Maxim. I. Arch. Pharm. & Ber. Deut. Pharm. Ges. 269: 369-383. Je. 1931.

Dieterle, H. & Haubold, K.
Ueber die inhaltstoffe der rinde von Xanthoxylum carolinianum. I. Arch. Pharm. & Ber. Deut.Pharm. Ges. 269: 384-397. Je. 1931.

Arch. Suikerind. Nederl.-Indië (Soerabaja)
Booberg, G.
C.A. Backer. Arch. Suikerind. Nederl. Indië. 1931: 687-690. port. Je.30,1931. no.25/26.

Beih. Bot.Centralbl. Abt.I.(Dresden)
Blochwitz, A.
Hydrotropismus und phototropismus bei schimmelpilzen. Beih. Bot. Centralbl. Abt.I, 48: 166-175. illus. My.1931. no.1/2.

Blochwitz, A.
Luftmyzelbildungen bei schimmelpilzen. Beih. Bot. Centralbl. Abt.I, 48: 176-182. illus. My. 1931. no.1/2.

Beih. Bot. Centralbl. Abt. I. (cont.)

Carstens, C.
Das dickenwachstum der gymnospermen und holzigen dikotyledonen. Beih. Bot. Centralbl. Abt.I, 48: 97-117. My. 1931. no.1/2.

Czurda, V.
Experimentelle untersuchungen über die sexualitätsverhältnisse der zygnemalen. Beih. Bot. Centralbl. Abt.I, 47: 15-68. illus. Je.1930(Rec'd Ag.1931) no.1.
Spirogyra and Zymena.

Daumann, E.
Das blütennektarium von Nepenthes. Beih. Bot. Centralbl. Abt.I, 47: 1-14. illus. Je.1930 (Rec'd Ag.1931) no.1.
Beiträge zur kenntnis der nektarien. I.

Daumann, E.
Zur morphologischen wertigkeit der blütennektarien von Laurus. Beih. Bot. Centralbl. Abt.I. 48: 209-213. illus. My.1931. no.1/2.

Daumann, E.
Zur phylogenie der diskusbildungen. Beih. Bot. Centralbl. Abt.I, 48: 183-208. illus. My. 1931. no.1/2.
Beiträge zur kenntnis der nektarien. II.
Hydrocharis, Sagittaria, Sagina.

Geitler, L.
Der kernphasenwechsel der diatomeen. Mit einem anhang: Die kernteilung von Hydrosera. Beih. Bot. Centralbl. Abt.I, 48: 1-14. illus., pl. i. My. 1931. no.1/2.

Haas-Poetzl, I.
Die wirkung von salzen auf die spaltöffnungsbewegung. Beih. Bot. Centralbl. Abt.I, 47: 255-270. N.1930(Rec'd Ag.1931) no.2.

Hoffmann, E.
Vorkommen, verteilung und funktion der spaltöffnungen an den blütenorganen. Beih. Bot. Centralbl. Abt.I, 47: 139-168. pl.i. Je.1930. (Rec'd Ag.1931) no.1.

Beih. Bot. Centralbl. Abt.I. (cont.)

Holm, T.
The apparent influence of inulin on the meristem in roots of Compositae. Beih. Bot. Centralbl. Abt.I, 47: 359-377. illus. F.1931. no.3.

Knight, M.
Nuclear phases and alternation in algae. Phaeophyceae. Beih. Bot. Centralbl. Abt.I, 48: 15-37. illus. My.1931. no.1/2.

Kopetzky-Rechtperg, O.
Ueber die kristalle in den zellen der gattung Closterium Nitzsch (Desmidiaceae). Beih. Bot. Centralbl. Abt.I, 47: 291-324. pl. vii-viii. F. 1931. no.3.

Maass, K. E.
Die entwicklung des stammaufbaues einiger Crassula-arten. Beih. Bot. Centralbl. Abt.I, 48: 118-154. illus., pl.ii. My.1931. no.1/2.

Mühldorf, A.
Ueber die gestalt und den bau der spermien von Sphagnum. Beih. Bot. Centralbl. Abt. I, 47: 169-191. pl. ii. N.1930(Rec'd Ag.1931) no.2.

Niethammer, A.
Beiträge zur keimungsbiologie und physiologischen anatomie der früchte von Tragopogon pratensis L. Beih. Bot. Centralbl. Abt.I, 47: 283-290. illus. N. 1930(Rec'd Ag.1931) no.2.

Niethammer, A.
Lichtkeimungsprobleme im zusammenhange mit physiologisch-anatomischen studien. Beih. Bot. Centralbl. Abt.I, 47: 346-358. F. 1931. no.3.

Pascher, A.
Eine braune, aërophile gallertalge und ihre einrichtungen für die verbreitung durch den wind. Beih. Bot. Centralbl. Abt.I, 47: 325-345. illus. pl.ix-x. F.1931. no.3.
Geochrysis turfosa.

Beih. Bot. Centralbl. Abt.I (cont.)

Pascher, A.
Ueber zwei spezialisierte algen. (Der beiträge zur morphologie und biologie epiphytischer algen 2. teil). Beih. Bot. Centralbl. Abt.I, 47: 271-281. illus. N.1930(Rec'd Ag.1931) no.2.
Lagynion cystodinii n.sp., Epicystis (nov.gen.) E. peridinearum.

Petrová, J.
Die vermeintliche heterokonte "Botrydiopsis" minor - eine chlorophycee. Beih. Bot. Centralbl. Abt.I, 48: 221-228. illus. My.1931. no.1/2.

Pohl, F.
Zur ökologie der blüten von Viscum album L. Beih. Bot. Centralbl. Abt.I, 47: 378-396. illus. F. 1931. no.3.

Rasdorsky, W.
Zur frage über die baumechanischen autoregulationen bei den pflanzen. (Erwiderung und betrachtungen anlässlich eines sammelreferats). Beih. Bot. Centralbl. Abt.I, 47: 192-254. pl.iii-vi. N.1930(Rec'd Ag.1931 no.2.)

Sigmond, H.
Die entfaltung der blütenknospen zweier Oenotherarten. III. Beih. Bot. Centralbl. Abt.I, 47: 69-138. Je.1930(Rec'd Ag.1931) no.1.

Sigmond, H.
Das trennungsgewebe der männlichen ricinusblüte. I. Untersuchungen über trennungsgewebe. Beih. Bot. Centralbl. Abt.I, 48: 155-165. illus. My. 1931. no.1/2.

Svedelius, N.
Nuclear phases and alternation in the Rhodophyceae. Beih. Bot. Centralbl. Abt.I, 48: 38-59. illus. My. 1931. no.1/2.

Vik, V.
Ueber die struktur der heterokontengeisseln. Beih. Bot. Centralbl. Abt.I, 48: 214-220. illus. My. 1931. no.1/2.

Beih. Bot. Centralbl. Abt. I. (cont.)

Würth, E.
Die geschlechtsdifferenzierung der pflanzen. (Eine abhandlung über die grundlage und die entwicklung derselben). Beih. Bot. Centralbl. Abt.I, 48: 60-96. My.1931. no.1/2.

Beih. Bot. Centralbl. Abt. II. (Dresden)

Beck-Mannagetta, G.
Die algen Kärntens. Erste grundlagen einer algenflora von Kärnten. Beih. Bot. Centralbl. Abt.II, 47: 211-342. illus, Mr.1931. no.2/3.

Dissmann, E.
Zur kenntnis einer neuen Isoachlya-art aus dem erdboden. Beih. Bot. Centralbl. Abt.II, 48: 103-111. illus. Je.1931. no.1.

Isoachlya subterranea.
Neue und wenig bekannte phycomyceten aus Lunz a. See I.

Gross, H.
Das problem der nacheiszeitlichen klima- und florenentwicklung in Nord- und Mitteleuropa. Beih. Bot. Centralbl. Abt.II, 47: 1-110. O.1930(Rec'd Ag.1931) no.1.

Katz, N. J.
Zur kenntnis der oligotrophen moortypen des europäischen Russlands. Beih. Bot. Centralbl. Abt. II, 47: 177-210. illus. (incl.map) O.1930(Rec'd Ag. 1931) no.1.

Klement, O.
Zur flechtenflora des Erzgebirges. Die umgebung von Komotau. Beih. Bot. Centralbl. Abt.II, 48: 52-96. Je.1931. no.3.

Klika, J.
Studien über die zerotherme vegetation Mitteleuropas I. Beih. Bot. Centralbl. Abt.II, 47: 343-398. illus. (map) pl.vii. Mr.1931. no.2/3.
Die Pollauer berge im südliche Mähren.

Mägdefrau, K.
Zur morphologie und phylogenetischen bedeutung der fossilen pflanzengattung Pleuromeia. Beih. Bot. Centralbl. Abt.II, 48: 119-140. illus., pl.iii-vii. Je.1931. no.1.

Beih. Bot. Centralbl. Abt.II. (cont.)

Mattick, F.
Mikrokilmatische und vegetationsuntersuchungen auf der Insel Vilm (Rügen). Beih. Bot. Centralbl. Abt.II, 47: 399-420. pl. viii-xii. Mr.1931. no.2/3.

Rudolph, K.
Betula humilis Schrank, subfossil in Südböhmen. Beih. Bot. Centralbl. Abt.II, 48: 112-118. illus. (incl.map) Je. 1931. no.1.

Rudolph, K.
Grundzuge der nacheiszeitlichen waldgeschichte Mitteleuropas. (Bisherige ergebnisse der pollenanalyse). Beih. Bot. Centralbl. Abt.II, 47: 111-176. pl.i-vi. O.1930(Rec'd Ag.1931) no.1.

Schmeja, O.
Beitrag zur kenntnis der gattung Jasione. Beih. Bot. Centralbl. Abt.II, 48; 1-51. illus. (incl. maps), pl.i-ii. Je.1931. no.1.

Sprenger, E.
Zur bacillariaceen-vegetation im Alaunsee bei Komotau in Böhmen. Beih. Bot. Centralbl. Abt.II, 48: 97-102. Je.1931. no.3.

Biochem. Zeitschr.(Berlin)

Weichherz, J. & Asmus, R.
Untersuchungen über die enzymatischen vorgänge bei der keimenden gerste. I.Die entwicklung der diastatischen kraft. Biochem. Zeitschr. 237: 20-72. illus. Jl.15, 1931. no.1/3.

Blue Anchor. (Sacramento, Cal.)
Puncture vine spread by means of airplanes. Blue Anchor 8(8): 16. Ag.1931.

Bot. Mag. Tokyo.

Emoto, Y.
Die myxomyceten der Südmandschurei. Bot. Mag. Tokyo. 45: 229-234. illus. My.1931. no.533.
Physarum puniceum n.sp.

Honda, M.
Muntia ad floram Japonicae XII. Bot. Mag. Tokyo 45: 297-300. Je.1931. no.534.
Draba oiana, Trisetum kitadakense, Scutellaria suzukiana, Eriocaulon sekimotoi n.spp.

Bot. Mag. Tokyo (cont.)

Kanehira, R.
An enumeration of the woody plants collected in Micronesia, Japanese mandate (in 1929 and 1930)
Bot. Mag. Tokyo 45: 271-296. Je.1931. no.534.
A number of new species described.
Marianne, Carolina and Marshall groups & Iwo Islands.

Oikawa, K.
Sex in Stropharia semiglobata. Bot. Mag. Tokyo 45: 250-257. My.1931. no.533.
In Japanese.

Okabe, S.
Ueber die polyploidy der gattung Senecio. Bot. Mag. Tokyo 45: 258-260. illus. My.1931. no.533.
In Japanese.

Satake, Y.
Systematic and anatomical studies of Japanese Juncaceae. Bot. Mag. Tokyo 45: 235-249. illus. My.1931. no.533.
In Japanese.

Yasuda, S.
Physiological researches on the fertility in Petunia violacea. IX. Some new experiments on the nature of the special substances which inhibit self-fertilization existing in the pistil.
Bot. Mag. Tokyo 45: 301-313. Je.1931. no.534.
Japanese with English summary.

Bot. Arch. (Leipzig)

Freyberg, W.
Beiträge zur kenntnis der physiologie der hüllschichten des maiskornes. Bot. Arch. 32: 392-492. illus. Jl.1931. no.3/4.

Gauger, W.
Untersuchungen über die biozönose und die physiognomie eines ostpreussischen hochmoores (Zehlau) im jahresprofil. Bot. Arch. 32: 342-391. Jl.1931. no.3/4.

Mrugowsky, J.
Die formation der gipspflanzen. Beiträge zu ihrer soziologie und oekologie. Bot. Arch. 32: 245-341. illus. Jl.1931. no.3/4.

Botaniste. (Paris)

Lechtova-Trnka, M.

Étude sur le bactéries des légumineuses et observations sur quelques champignons parasites des nodosités. Botaniste 23: 301-488. illus.,pl. xxiv-xliv. Jl. 1931. no.5/6.

Deux champignons parasites des tubercules des légumineuses (Pythium tuberculorum, Ascorhiza leguminosarum g.nov., sp.nov.)

Bulet. Grad. Bot. Univ. Cluj. (Roumania)

Borza, A.

Notite etnobotanicae. Numiri populare pe plante Bulet. Grad. Bot. Univ.Cluj. 11: 51-52. 1931. no.1/2.

Borza, A.

Schedae ad "Floram Romaniae exsiccatam" a Museo botanico Universitatis Clusiensis editam. Centuria X. Bulet. Grad. Bot. Univ. Cluj. 11: 1-26. 1931. no.1/2.

Bujorean, G.

Contributiuni la cunoasterea succesiunii şiintovarăşirii plantelor. (Contributions to the knowledge of plant succession and plant association) Bulet. Grad. Bot. Univ. Cluj 10: 1-184. xxiii pl. incl. tab. 1931. no.1/4.

Rumanian with English summary.

Cretzoij, P.

Contributioni la flora lichenologica a judetelor brasov si tarnava-mare. Bulet. Grad.Bot. Univ. Cluj 10: 205-209. 1931. no.1/4.

Nyárády, E. I.

Adnotaţiuni la flora Romaniei. V-Vi. (Glossen zur flora Rumaeniens). Bulet. Grad. Bot. Univ. Cluj 10: 197-204; 11: 37-50. illus. 1931. no.1/4,1/2.

Rumanian with German summaries.

Pop, E.

Contribuţh la istoria botanicei Romaneşti (Beitrag zur geschichte der botanik in Rumänien). Bulet. Grad. Bot. Univ. Cluj. 10: 185-196. 1931. no.1/4.

Rumanian with German summary: p.194-195.

Bull. Mens. Soc. Nat. Hort. France. (Paris)

Charmeux, F.

Notice biographique sur Gustave Riviere (1850-1931). Bull. Mens. Soc. Nat. Hort. France V,4: 275-283. port. Je. 1931.

Bull. Soc. Bot. France. (Paris)

Camus, A.

Decaryella, genre nouveau de graminées malgaches. Bull. Soc. Bot. France 78: 177-178. Jl.4,1931 no. 3/4.

D. madagascariensis.

Chauveaud, G.

Il faut chercher, dans la racine, le point de départ de l'évolution vasculaire, mais non pas le point de départ de la plante vasculaire. Bull. Soc. Bot. France 78: 195-201. illus. Jl.4, 1931. no. 3/4.

Fournier, P.

Deux Ribes de la flore parisienne, R. vulgare Lmk. et R. alpinum L. Bull. Soc. Bot. France. 78: 201-204. Jl.4, 1931. no.3/4.

Pellegrin, F.

Apartea Pellegr. synonyme de Mapania Aublet. Bull. Soc. Bot. France 78:180. Jl.4, 1931. no. 3/4.

Apartea le Testui syn. of M. oblonga.

Pellegrin, F.

"Dongo" nouvelle plante à sel de l'Oubangui. Bull. Soc. Bot. France 78: 181-182. Jl.4, 1931 no. 3/4.

Hydrocharis salifera sp.n.

Sennen,

Campagne botanique au Maroc. Bull. Soc. Bot. France 78: 182-194. Jl.4, 1931. no. 3/4.

Bull. Soc. Chim. Biol. (Paris)

Bridel, M. & Lavieille, R.

Le principe à saveur sucrée du kaâ-hê-é (Stevia rebaudiana) Bertoni. Bull. Soc. Chim. Biol. 13: 636-655. Je.1931. no. 6.

Bull. Soc. Chim. Biol. (cont.)

Charaux, C. & Rabaté, J.
Contribution à l'étude biochimique du genre Salix. III. Un nouveau glucoside hydrolysable par l'émulsine retire de l'écorce du Salix purpurea L. Bull. Soc. Chim. Biol. 13: 588-597. Je.1931. no.6.

Rabaté, J. & Rabaté, Mme. S.
Sur le gaultherioside, nouvel heteroside extrait de la gaultherie fraiche (plante entière). Bull. Soc. Chim. Biol. 13: 604-615. Je.1931. no.6.

Mattioz, M.
Le "saliroposide", heteroside nouveau retire des ecorces de Salix repens L. (Salicaceas). Bull. Soc. Chim. Biol. 13: 658-667. illus. Je.1931. no.6.

Calif. Grow. (San Francisco)

Donnet, L. O.
Sunburn and sunscald damage. Calif. Grow. 3(8): 10-11. Ag.1931.
Grape.

Canad. Flor. (Peterbbro, Ont.)

Poesch, G.H.
Forcing plants with artificial light. Canad. Flor. 26: 259. Ag.11, 1931. no.16.

China Journ. (Shanghai)

Tsiang, Y.
Some notes on "meen keah"...Pahudia xylocarpa Kurz. China Journ. 15: 40-41. pl. Jl.1931. no.1.

Compt. Rend. Acad. Sci. Paris

Blaringhem, L.
Sur une mutation de la giroflée des murailles (Cheiranthus cheiri L.) par avortement des étamines. Compt. Rend. Acad. Sci. Paris 193: 124-127. Jl. 1931. no.3.

Gavaudan, P. & Cazalas, R.
Nouvelles observations sur la spermatogénèse des characees. Nature de la bande granuleuse et apparition des carotène et de chlorophylle dans certains spermatocytes. Compt. Rend. Acad. Sci. Paris 193: 193-195. Jl.1931. no.3.

Compt. Rend. Acad. Sci. Paris (cont.)

Maresquelle, H. J.
Action de Bacterium tumefaciens Smith et Townsend sur la régénération, dans la racine de Taraxacum dens leonis Desf. Compt. Rend. Acad. Sci. Paris 193: 190-192. Jl.1931. no.3.

Sauvageau, C.
Sur le role des Aglaozonia d'origine parthénogénétique. Compt. Rend. Acad. Sci. Paris 193: 133-134. Jl. 1931. no.3.

Compt. Rend. Soc. Biol. Paris

Dusi, H.
L'assimilation des acides aminés par quelques euglénions. Compt. Rend. Soc. Biol. Paris 107: 1232-1234. Jl.21, 1931. no.24.

Cytologia (Tokyo)

Cleland, R.E. & Blakeslee, A.F.
Segmental interchange, the basis of chromosomal attachments in Oenothera. Cytologia (Tokyo) 2: 175-233. Je.1931. no.3.

Erlanson, E.W.
Chromosome organization in Rosa. Cytologia (Tokyo) 2: 256-282. illus. Je.1931. no. 3.

Kihara, H. & Katayama, Y.
Genomanalyse bei Triticum and Aegilops. III. Zur entstehungsweise eines neuen konstanten oktoploiden Aegilotricum. Cytologia (Tokyo) 2: 234-255. illus. Je. 1931. no.3.

Kisser, J.
Methoden zur isolierung der Mutikula rezenter pflanzen. Cytologia (Tokyo) 2: 283-289. Pl.10. Je. 1931. no.3.

Desert (Pasadena)

Higgins, E. B.
Echinocereus papillosus Linke. Desert (Pasadena) 3: 45. Ag.1931. no.3, i.c.,4.

Munz, P. A.
The cacti of Tehuacan. Desert (Pasadena) 3: 41-42. illus. Ag. 1931. no.3, i.c.4.

Desert (Pasadena) (cont.)

White, A.
Caralluma. Desert (Pasadena) 3:39,45. illus. Ag.1931. no.3, i.e.4,

Farming South Africa (Pretoria)

Dippenaar, D. J.
Anthracnose disease of almonds. Farming South Africa 6: 133-134. illus. Jl.1931. no.64.

Wager, V. A.
Early blight of potatoes. Farming South Africa 6: 147-148. illus. Jl.1931. no.64.

Flor. Rev. (Chicago)

Peach spray on carnations. Flor. Rev. 68 (1757): 29. illus. Jl.30, 1931. no.1757.
For leaf spot disease.

Fortschr. Landw. (Vienna)

Friedrichs, G.
Die kurznassbeizung in beizapparaten für unterbrochenen betrieb. Fortschr. Landw. 6: 113-117. F.15, 1931. no.4.

Mayr, E.
Abhängigkeit der saugkraft und keimungsgeschwindigkeit von alter des saatgutes, dargestellt an sommerweizen. Fortschr.Landw. 6: 485-488. Ag. 1, 1931. no.15.

Schwarz, O.
Die physiologische konstitution von wiesengräsern und ihre beziehung zur pathologischen disposition. Fortschr. Landw. 6: 499-502. Ag.1 1931. no.15.

Gard. Chron. (London)

An abnormal Iceland poppy. Gard. Chron. III, 90: 86. illus. (p.83) Ag.1, 1931. no.2327.

Anderson, A. W.
Some plant affinities of New Zealand and South America. Gard. Chron. III, 90: 93. Ag.1, 1931. no.2327.

Gard. Chron. (cont.)

Friend, H.
Horticulture in relation to commerce. XII. An invaluable bean. Gard. Chron. III, 90: 91-92. Ag.1, 1931. no.2327.

Small, J.
Revelations of a pocket-lens (cont.) Gard. Chron. III, 90: 69. illus. Jl.25, 1931. no. 2326.

Stearn, W. T.
The hostas or funkias. A revision of the plantain lilies (cont.) Gard. Chron. III, 90: 88-89. illus. Ag.1, 1931. no. 2327.

Ward, F. K.
The Roosevelt expedition in French Indo-China. XX. Penang. Gard. Chron. III, 90: 90-91. Ag.1, 1931. no.2327.

Gard. Chron. Amer.

Dukinfield, J. P.
Unusual plantings under trees and in shady places. Gard. Chron. Amer. 35: 299-300. Ag. 1931. no.8.

Rowntree, L.
The Californian wild-lilacs. Gard. Chron. Amer. 35: 305. illus. Ag.1931. no.8.
Ceanothus.

Indische. Cult. (Soerbaja)

Lotsy, J. P.
Namen met een geschiedenis, plantenverzamelaars aan de Kaap. Indische Cult. 18: 425-434. illus. Jl.1, 1931. no.13.

Industr. Saccarifera Ital. (Geneva)

Costa, T.
Su alcune prove di lotta contro la Cercospora bieticola eseguite a Mónzon per conto della Compagnia de industrias agricolas. Industr. Saccarifera Ital. 24: 12-16. Ja.1931. no.1.

Informe Dept. Entom. y Fitopat. Estac. Exp. Agron. Santiago de las Vegas

Bruner, S. C.
Adiciones a la lista de enfermedades de plantas de importancia economica para Cuba. Informe Dep. Entom. y Fitopat. Estac. Exp. Agron. Santiago de las Vegas 1929/30: 57-69. pl. 1931.

Informe.Dept. Enton. y Fitopat. Estac. Exp. Agron. Santiago de las Vegas (cont.)

Bruner, S. C.
La enfermedad "verruga" de las habas de Lima. Informe Dept. Enton. y Fitopat. Estac. Exp. Agron. Santiago de las Vegas 1929/30:31-40. 2 pl. 1931.
Elsinoe canavalicae, deals also with other diseases.

Bruner, S. C.
Experimento sobre el daño que ocasiona el mosaico a la caña cristalina. Informe Dept. Enton. y Fitopat. Estac. Exp. Agron. Santiago de las Vegas 1929/30: 41-46. 2 pl. 1931.

Ital. Agr. (Milan)

Giuliani, M.
Osservazioni sugli organi embrionali del frumento, della segale e dell'orzo. Ital. Agr. 68: 453-461. illus. Jl.1931. no.7.

Pollacci, G.
Sul parziale albinismo del frumento. Ital. Agr. 68: 435-438. illus. Jl.1931. no.7.

Journ. Agr. Res. (Washington, D. C.)

Smith, O.
Characteristics associated with abortion and intersexual flowers in the eggplant. Journ. Agr. Res. 43: 83-94. illus. Jl.1, 1931. no.1.

Thornberry, H. H. & Anderson, H. W.
A bacterial disease of barberry caused by Phytomonas berberidis n.sp. Journ. Agr. Res. 43: 29-36. illus. Jl.1, 1931. no.1.

Journ. Agr. Sci. (London)

Owen, O.
The analysis of tomato plants. II. The effect of manurial treatment on the composition of tomato foliage. Journ. Agr. Sci. 21: 442-451. Jl. 1931. no. 3.

Journ. Amer. Chem. Soc.

Nelson, E. K. & Mottern, H. H.
Some organic acids in barley, maize, oats and rye plants. Journ. Amer. Chem. Soc. 53: 3046-3048. Ag.1931. no.8.

Journ. Arnold Arb. (Cambridge, Mass.)

Faull, J. H.
Milesina rusts on Aspidium braunii Spenner. Journ. Arno.d Arb. 12: 218-219. Jl.1931. no.3.
Milesina exigua n.sp.

Hu, H. H.
Notulae systematicae ad floram sinensem. III. Journ. Arnold Arb. 12: 151-156. Jl.1931. no.3.

Palmer, E. J.
Conspectus of the genus Amorpha. Journ. Arnold Arb. 12: 157-197. illus., pl.36. Jl.1931.no.3.

Sax. K.
Chromosome numbers in the ligneous Saxifragaceae. Journ. Arnold Arb. 12: 198-206. pl.37. Jl.1931. no.3.

Steensi, C.G.G. van.
On the occurrence of Casuarina nodiflora Forst. in Australia. Journ. Arnold Arb. 12: 197. Jl. 1931. no.3.

Steenis, C.G.G. van.
A previously undescribed Pandorea from northeast Queensland, Australia. Journ. Arnold Arb. 12: 149-151. pl. 35. Jl.1931 no.3.

Woodworth, R. H.
Polyploidy in the Betulaceae. Journ. Arnold Arb. 12: 206-217. Jl.1931. no. 3.

Journ. Biol. Chem. (Baltimore)

Pearce, G. W. & Streeter, L.R.
A report on the effect of light on pigment formation in apples. Journ. Biol. Chem. 92: 743-749. Ag.1931. no.3.

Stull, A., Cooke, R.A. & Chobot, R.
The allergically active substance in ragweed pollen. A chemical and biological study. Journ. Biol. Chem. 92: 569-588. Ag.1931. no.3.

Journ. Bombay Nat. Hist. Soc.

Ali, S.A.
The role of sunbirds and flower-peckers in the propagation and distribution of the tree-parasite, Loranthus longiflorus Dest., in the Konkan (W. India) Journ. Bombay Nat. Hist. Soc. 35: 141-149. illus., 2 pl. Je.15, 1931. no.1.

Blatter, E.
Revision of the flora of the Bombay presidency. XV. Araceae by E. Blatter & C. McCann. Journ. Bombay Nat. Hist. Soc. 35: 13-31. pl. i-vii. Je.15, 1931. no.1.
Cryptocoryne tortuosa, C. cognatoides, Typhonium incurvatum, Theriophonium uniseriatum n.spp.

Blatter, E. & Millard, W. S.
Some beautiful Indian trees. VI. The Cassias. Journ. Bombay Nat. Hist. Soc. 35: 60-65. 4 pl. (2 col) Je.15, 1931.

Journ. Fac. Sci. Hokkaido Imp. Univ. Ser.V, Bot. (Sapporo)

Akiyama, S.
Species novae caricum japonicarum. Journ. Fac. Sci, Hokkaido Imp. Univ. Ser. V, Bot. 1: 57-63. pl. vii-xv. Ap.1931. no.2.

Matsuura, H.
Genic analysis in Avena. A monograph. Journ. Fac. Sci. Hokkaido Imp. Univ. Ser.V, Bot. 1: 77-107. Ap. 1931. no.2.

Sakamura, T.
Experimentelle studien über die blasenzellbildung bei Aspergillus oryzae. Journ. Fac. Sci. Hokkaido Imp. Univ. Ser. V, Bot. 1: 1-26. pl. i. S.1930 (Rec'd Ag.1931) no.1.

Yamada, Y.
Notes on some Japanese algae. I-II. Journ. Fac. Sci. Hokkaido Imp. Univ. Ser. V, Bot. 1: 27-36, 65-76. illus., pl. ii-iv, xvi-xx. S.1930, Ap. 1931. no.1,2.

Yamaguchi, S.
Studies on the resorption of urea by root of Zea mays-seedlings in sterile culture. Journ. Fac. Sci. Hokkaido Imp. Univ. Ser.V, Bot. 1: 37-55. illus. S.1930 (Rec'd Ag.1931) no.1.

Journ. Hered. (Washington)
Eyster, W. H.
Heritable characters of maize. XXXVIII-XXXIX. Male sterile. Journ. Hered. 22: 99-102. Mr., Ap. 1931. no.3,4.

Shamel, A. D., Pomeroy, C. S. & Harmon, F.N.
Bud variation in Bartlett pear trees. Journ. Hered. 22: 81-89. illus. Mr.1931. no.3.

Journ. Indian Chem. Soc. (Calcutta)
Kaul, R., Ray, A.C. & Dutt, S.
Constitution of the active principles of Embelia ribes. II. Journ. Indian Chem. Soc. 8: 231-236. Ap./My.1931. no.4/5.

Kíserl. Közlem. (Bull. Stat. Agron. Hongr.) (Budapest)
Havass, G.
Trifolium hybridumból mutáció utján létro jött Trifolium fragiferum, Trifolium repens es egyéb mutaciok ismertetese. (Description of mutation from Trifolium hybridum to Trifolium fragiferum or Trifolium repens. Genealogical study of the origin of species). Kisérl. Közlem. (Bull.Stat. Agron. Hongr.) 34: 17-33. illus. Ja./Mr.1931. (recd Ag.) no.1.
German and English summaries.

Mem. Amer. Acad. Arts & Sci.
Thaxter, R.
Contributions towards a monograph of the Laboulbeniaceae V. Mem. Amer. Acad. Arts & Sci. 16: 1-371. pl. i-lx. Je.27, 1931. no.1.

Mem. Dept. Agr. India Bot. Ser.
Shaw, F. J. F. & Khan, A.B.
Studies in Indian pulses. 2. Some varieties of Indian gram (Cicer arietinum L.) Mem. Dept. Agr. India Bot. Ser. 19: 27-47. illus. col. pl.i-iii. My.1931. no.2.

Mem. Fac. Sci. & Agr. Taihoku Imp. Univ.
Goteh, K.
Physiological researches on pollen, with special reference to the artificial germination of Gramineae pollen. Mem. Fac. Sci. & Agr. Taihoku Imp. Univ. 3: 61-197. illus.,pl.i-ii. Mr.1931. no.2.

Mem. Fac. Sci. & Agr. Taihoku Imp. Univ. (cont.)
Takenouchi, Y.
Systematisch-vergleichende morphologie und anatomie der vegetationsorgane der japanischen bambus-arten. Mem. Fac. Sci. & Agr. Taihoku Imp. Univ. 3: 1-60. illus., pl.i-iii. F.1931. no.1.

Nature (London)
Hill, A. W.
Major T.F. Chipp. Nature 128: 141-142. Jl.25, 1931. no.3221.

Storey, H. H.
A new virus disease of the tobacco plant. Nature 128: 187-188. Ag.1, 1931. no.3222.

Nuovo Giorn. Bot. Ital. (Firenze)
Bolzon, P.
Contributo alla flora dell'alto Adige. Note VI. Nuovo Giorn. Bot. Ital. n.s., 38: 295-307. 1931. no.2.

Cappelletti, C.
La fioritura di Tulipa silvestris L. in rapporto alla nutrizione azotata. Nuovo Giorn. Bot. Ital. n.s., 38: 235-240. 1931. no.2.

Ciferri, R.
Erik L. Ekman (14 Ottobre 1883 - 15 Gennaio 1931) Nuovo Giorn. Bot.Ital. n.s. 38: 363-370. 1931. no.2.

Francini, E.
Lo sviluppo del sistema conduttore in plantule di "Hydrastis canadensis" L. Nuovo Giorn. Bot. Ital n.s., 38: 336-357. illus. 1931. no.2.

Gavioli, O.
Note sulla flora Lucana monti della Maddalena. Nuovo Giorn. Bot. Ital. n.s. 38: 241-294. 1931. no.2.

Passerini, N.
Sul significato morfologico e fisiologico della "palla" del cavolfiore e su di un caso di fasciazione della medesima. Nuovo Giorn. Bot. Ital. n.s., 38: 308-314. illus., pl.v. 1931. no.2.

Nuovo Giorn. Bot. Ital. (cont.)

Santarelli, E.

Contribuzione alla flora algologica del mare Adriatico. Nuovo Giorn. Bot. Ital. n.s., 38: 315-335. 1931. no.2.

Obst - u. Gemüseb. (Berlin)

Babel, A.

Berostungen und lederungen des kernobstes durch schädlingsbekämpfungsmittel. Obst- u. Gemüseb. 77: 115. illus. Jl. 15,1931. no.7.

Hasse, F.

Die blattbräune und schrotschusskrankheit der süsskirschen in Oberbaden. Obst- u. Gemüseb. 77: 113. Jl.15, 1931. no.7.

Laubert, R.

Ueber die verschiedenen formen des apfelschorfes. Obst.- u. Gemuseb. 77: 115-116. Jl.15, 1931. no.7.

Oesterr. Bot. Zeitschr. (Wein)

Furlani, J.

Studien über die elektrolytkonzentration in böden. V. Salz-, steppen- und auenböden. Oesterr. Bot. Zeitschr. 80: 190-222. Je.15, 1931. no.3.

Klein, G., Siersch, E. & Linser, H.

Zum mikrochemischen nachweis freier phenole in der pflanze. Oesterr. Bot. Zeitschr. 80: 223-247. illus. Je.15, 1931. no.3.

Lehwag, h.

Bovista membranacea, eine neue art aus Ostafrika. Oesterr. Bot. Zeitschr. 80: 177-189. illus., pl. xi. Je.15, 1931. no.3.

Martinovský, J. O.

Einige interessante blätter- und blütenabnormitäten an Adoxa moschatellina L. Oesterr. Bot. Zeitschr. 80: 250-264. illus. Je.15, 1931. no.3.

Meyer, K.

Die einschleppung von pflanzen mit südfruchtsendungen. Oesterr. Bot. Zeitschr. 80: 265-270. Je.15, 1931. no.3.

Onze Ploeg Landb. Tijdschr. (Leuven)

Casteels, F.
Ontaardingsziekten van den aardappel. Onze Ploeg Landb. Tijdschr. 10: 193-198. Jl.1931. no. 7.

Jennes, J.
Bladvlekziekte der azalea's. Onze Ploeg Landb. Tijdschr. 10: 199-203. illus. Jl.1931. no.7.

Pharm. Acta Helv. (Zürich)

Flück, H.
Der diagnostiche wert der spaltöffnungsgrössen offizineller blätter. Pharm. Acta Helv. (Zürich) 6: 125-133. Jl. 25, 1931. no.7.

Pharm. Zentralh. (Dresden)

Richter, J.
Die kälte und die pflanze. Pharm. Zentralh. 72: 449-454. Jl.16. 1931. no.29.

Philipp. Journ. Sci. (Manila)

Juliano, J.B. & Quisumbing, E.
Morphology of the male flower of Cocos nucifera Linnaeus. Philipp. Journ. Sci. 45: 449-458. 3 pl. Jl.1931. no.3.

Phytopath.

Holton, C. S.
Hybridization and segregation in the oat smuts. Phytopath. 21: 835-842. illus. Ag.1931. no.8.

Linford, M. B.
Studies of pathogenesis and resistance in pea wilt caused by Fusarium orthoceras var. pisi. Phytopath. 21: 797-826. illus. Ag.1931. no.8.

Linford, M. B.
Transpirational history as a key to the nature of wilting in the fusarium wilt of peas. Phytopath. 21: 791-796. Ag. 1931. no.8.

Linford, M.B.
Wound inoculation in relation to resistance in the fusarium wilt of peas. Phytopath. 21: 827-833. illus. Ag.1931. no.8.

Raeder, J. M. & Bever, W. M.
Spore germination of Puccinia glumarum with notes on related species. Phytopath. 21: 767-789. illus. Ag.1931. no.8.

Phytopath. Zeitschr. (Berlin)

Elze, D. L.
Die ubertragbarkeit mit dem samen von aukubamosaik sowie blattroll (paloemnchrose) der kartoffel. Phytopath. Zeitschr. 3: 449-460. illus. 1931. no.4.

Forsteneichner, F.
Die jugendkrankheiten der baumwolle in der Türkei. Phytopath. Zeitschr. 3: 367-412. incl. pl.1-7. 1931. no.4.
Rhizoctonia gossypii n.sp. and var. anatolica, Alternaria humicola var. gossypii, n.var.

Lilienstern, M.
Beitragzur physiologie der immanität von pflanzen gegen Cuscuta. Phytopath. Zeitschr. 3: 439-447. illus. 1931. no.4.

Lüdtke, M.
Neuere ergebnisse der zellwandforschung und ihre bedeutung fur phytopathologische fragen. Phytopath. Zeitschr. 3: 341-366. illus. 1931. no.4.

Tamura, T
New methods of test on the toxicity and preservative value of wood preservatives. Phytopath. Zeitschr. 3: 421-437. illus. 1931. no.4.

Plant Physiology.

Albert, W.B. & Armstrong, C. M.
Effects of high soil moisture and lack of soil aeration upon fruiting behavior of young cotton plants. Plant Physiology 6: 585-591. illus. Jl. 1931. no.3.

Coggeshall, M.
Influence of acetic, propionic, normal butyric and sulphuric acids and potassium acetate on elongation of primary roots of seedlings of white lupine. Plant Physiology 6: 389-445. Jl. 1931. no.3.

Hartshorn, R.
Some effects of acetylene on the ripening processes of bananas. Plant Physiology 6: 467-484. illus. Jl. 1931. no.3.

Plant Physiology (cont.)

Harvey, E. M.
Movement of water in plants as affected by a mutual relation between the hydrostatic and pneumatic systems. Plant Physiology 6: 495-506. illus. Jl. 1931. no.3.

Hendrickson, A.H. & Veihmeyer, F.J.
Influence of dry soil on root extension. Plant physiology 6: 567-576. illus. Jl.1931. no.3.

Hoagland, D.R.
Absorption of mineral elements by plants in relation to soil problems. Plant Physiology 6: 373-388. Jl. 1931. no.3.

Hooper, F. E.
Studies on parenchymatous and vascular plant tissues, some analytical and specific gravity data. Plant Physiology 6: 531-539. Jl. 1931. no.3.

Lipman, C. B. & Mackinney, G.
Proof of the essential nature of copper for higher green plants. Plant Physiology 6: 593-599. illus. Jl. 1931. no.3.

Louis Hermann Pammel. Plant Physiology 6:602-603. Jl.1931. no.3.

Lund, E. J.
External polarity potentials in the apex of the Douglas fir before and after mechanical stimulation. Plant Physiology 6: 507-517. illus. Jl.1931. no.3.

McHargue, J. S. & Calfee, R.K.
Effect of manganese, copper and zinc on the growth of yeast. Plant Physiology 6: 559-566. Jl. 1931. no.3.

Markley, K. S. & Sando, C. E.
Permeability of the skin of apples as measured by evaporation loss. Plant Physiology 6: 541-547. Jl. 1931. no.3.

Mulay, A. S.
Seasonal changes in total, soluble, soluble-protein, non-protein, and insoluble nitrogen in current year's shoots of Bartlett pear. Plant Physiology 6: 519-529. illus. Jl. 1931. no.3.

Plant Physiology (cont.)

Overholser, E.L., Hardy, M.B. & Locklin, H.D.
Respiration studies of strawberries. Plant Physiology 6: 549-557. Jl. 1931. no.3.

Sayre, J.D. & Morris, V.H.
Comparison of methods of determining moisture in corn tissues. Plant Physiology 6: 577-583. illus. Jl.1931. no.3.

Shirley, H.L.
Light sources and light measurements. Plant Physiology 6: 447-466. Jl.1931. no.3.

Welton, F.A. & Wilson, J.D.
Water-supplying power of the soil under different species of grass and with different rates of water application. Plant Physiology 6: 485-493. Jl. 1931. no. 3.

Proc. Ohio State Hort. Soc.

Cooley, L.M.
The general raspberry disease situation and disease-free planting stock. Proc. Ohio State Hort. Soc. 64: 64-68. 1931.

Tukey, H. B.
The trend in new fruit varieties. Proc. Ohio State Hort. Soc. 64: 112-124. 1931.

Progr. Agr. & Vitic. (Montpellier)

Krimpas, B. D.
L'origine de la vigne de Corinthe. Progr. Agr. & Vitic. 96: 111-117. Ag.2, 1931. no.31.

Protoplasma (Leipzig)

Collins, W. A.
Gift-resistenz verschieden alter Elodea-blätter. Protoplasma 12:549-553. Ap.1931(Rec'd Ag.) no.4.

Höfler, K.
Plasmolysverlauf und wasserpermeabilität. Protoplasma 12: 564-579. Ap. 1931 (Rec'd Ag.) no.4.

Protoplasma (cont.)

Niethammer, A.
Studien über die beeinflussung der pflanzenzelle durch schwermetallverbindungen. II. Protoplasma 12: 554-563. illus. Ap.1931(Rec'd Ag.) no.4.

Publ. Field Mus. Nat. Hist. Bot. Ser.

Standley, P. C.
The Rubiaceae of Bolivia. Publ. Field Mus. Nat. Hist 292 Bot.Ser. 7: 255-339. Je.16, 1931. no.3.

Standley, P. C.
Studies of American plants. V. Publ. Field Mus.Nat. Hist. 294 Bot.Ser. 8: 295-398. Je.25, 1931. no.5.

Queensl. Agr. Journ. (Brisbane)

Simmonds, J. H.
Cobweb or pink disease of citrus. Queensl. Agr. Journ. 36: 16-19. illus. Jl.1, 1931. no.1.
Corticium salmonicolor.

Rec. Bot. Surv. India (Calcutta)

Brühl, P.
A census of Indian mosses...pt.2. Records Bot. Surv. India v.13, pt.2. 152 p. 1931.

Rep. Agr. Dept. Bihar & Orissa.

Sterility disease of rahar (Cajanus indicus) Rep. Agr. Dept. Bihar & Orissa 1929/30: 42-43. pl. i. 1931.
May be a virus disease.

Rep. Dept. Agr. Centr. Prov. & Berar.

Dastur, J. L.
Report of the mycological section for the year ending 31st March 1930. Rep. Dept. Agr. Centr. Prov. & Berar 1929/30: 39-45. 1931.

[Rep.] Edinb. & East Scotl. Coll. Agr.

Fenton, E. W.
Poisonous and milk-tainting plants. [Rep.] Edinb. & East Scotl. Coll. Agr. n.s., 4: 7-31. 1931.

Rep. Food Invest. Bd.Gt. Brit.

Archbold, H.K.
Chemical work on fruit. Rep. Food Inv. Bd. Gt. Brit. 1930: 149-162. 1931.
Apples.

Barker, J.
The effect of hydrogen cyanide on the metabolism of the potato. Rep. Food Inv. Bd. Gt. Brit. 1930: 61-64. 1931.

Horne, A. S.
Biologicial work. Rep. Food Inv. Bd. Gt. Brit. 1930: 162-172. 1931.
Infection in relation to disease in stored apples. - Resistance in relation to chemical composition. - Changes in resistance.

Rev. Algol. (Paris)

Feldmann, J.
Sur deux volvocacées nouvelles pour la flore francaise. Rev. Algol. 6: 88-89. illus. Jl.15, 1931. no.1.

Frémy, P.
A propos de Scytonema malaviyaensis Y. Baradwaja. Rev Algol. 6: 86-87. Jl.15, 1931. no.1.

Frémy, P.
Spores et hetérocystes dans le genre Cylindrospermum. Rev. Algol. 6: 85-86. Jl.15, 1931. no.1.

Hamel, G.
Chlorophycées des cotes francaises (concl.) Rev. Algol. 6: 9-73. illus. Jl.15, 1931. no.1.

Lami, R.
Le Brachiomonas westiana Pascher dans la Baie de Saint-Malo. Rev. Algol. 6: 89-92. illus. Jl.15, 1931. no.1.

Lami, R.
Griffithsia corallina Ag. employe en médecine populaire bretonne. Rev. Algol. 6: 92. Jl.15, 1931. no.1.

Lemoine, Mme. P.
Sur l'existence dans la Manche d'une mélobésiés mediterranéenne (Lithophyllum (?) notarisii Duf.) Rev. Algol. 6: 81-85. illus. Jl.15, 1931. no.1.

Rev. Algol. (cont.)

Rich, F.
Notes on Arthrospira platensis. Rev. Algol. 6: 75-79. illus. Jl.15, 1931. no.1.

Yamada, Y.
Notes on some marine algae from Yokoska (Japan) determined by Dr. Hariot. Rev. Algol, 6: 1-7. Jl.15, 1931. no.1.

Rev. Facul. Agron. Univ. Montevideo

Montoro Guarch, A.
La Puccinia glumarum Eriks. et Henn. y una relación fito-patológica de un viaje de estudio realizado por las colonias del litoral uruguayo. Rev. Facul. Agron. Univ. Montevideo 4: 203-211. Ja. 1931 (Rec'd Ag.)

Ramón y Acosta, D.
Investigaciones fitopatológicas. Rev. Facul. Agron. Univ. Montevideo 4: 74-90. Ja.1931 (Rec'd Ag.)

Rhodora (Boston)

Eames, E. H.
Further additions to the Connecticut flora. Rhodora 33: 167-170. Ag.1931. no.392.

Muenscher, W.C. & Maguire, B.
Notes on some New York plants. Rhodora 33: 165-167. pl.213. Ag.1931. no.392.

Norton, A.H.
Plantago arenaria W. & K. at Portland, Maine. Rhodora 33: 171-172. Ag.1931. no.392.

Raup, H. M.
The genus Geum in the Athabasca-Great Slave Lake region. Rhodora 33: 172-176. map. Ag. 1931. no.392.

Rigg, G. B.
The occurrence of Phragmites communis in western Washington and Oregon. Rhodora: 33: 170-171. Ag. 1931. no.392.

Sbornik Ceskoslov. Akad. Zemed. (Praha)
Macků, J.
Pokusy o látkovém vlivu na produkci hmoty a účinných látek u některých léčivých rostlin (Experiences sur l'influence des differents elements sur la production de la matière végetale et des principes actifs contenus dans quelques plantes médicinales). Sbornik Ceskoslov. Akad. Zemed. 6: 363-392. illus. 1931. no.3.

Science. (Lancaster, Pa.)

Positive gas and water pressure in oaks. Science 73: 448-449. Ap.24, 1931. no.1895.

Carpenter, D.C. & Nebel, B.R.
Ruthenium tetroxide as a fixative in cytology. Science 74: 154-155. Ag.7, 1931. no.1910.

Gates, F.C.
Positive gas pressure in poplar. Science 74: 153. Ag.7, 1931. no.1910.

Ottley, A. M.
Chromosomes of Petunia. Science 74: 175. Ag.14, 1931. no.1911.

Sci. Rep. Tohoku Imp. Univ. 4 Ser. (Biol.(Sendai)
Okada, Y.
Contribution to the knowledge on the soil microflora of Pseudosasa-association. I- Sci. Rep. Tohoku Imp. Univ. 4 Ser. Biol. 6: 149-162. illus. Mr. 1931. no.1.

Soil Sci. (Baltimore)
Waksman, S. A. & Diehm, R. A.
On the decomposition of hemicelluloses by microörganisms: I-III. Soil Sci. 32: 73-95, 97-117, 119-139. Ag.1931. no.2.
I. Nature, occurrence, preparation, and decomposition of hemicelluloses. II. Decomposition of hemicelluloses by fungi and Actinomyces. III. Decomposition of various hemicelluloses by aerobic and anaerobic bacteria.

So. African Gard. (Johannesburg)
Bolus, L.
Long-tubed painted lady (Gladiolus angustus L.) So. African Gard. 21: 176. col. illus. Jl.1931. no. 7.

Studia Citrol. Tanaka Citrus Exp. Stat. Japan.

Hino, I.
The behavior of the citrus canker organism in the soil and in water. Studia Citrol. Tanaka Citrus Exp. Stat. Japan 4: 167-178. Mr.1931. no.2.
Japanese, English summary: p.178.

Sawada, K.
Lecture on parasitology of citrus fruits and trees. Studia Citrol. Tanaka Citrus Exp. Stat. Japan 4: 265-283. Mr.1931. no.2.
Japanese.

Tanaka, T.
On the centre of the origin of the citrus fruits. Studia Citrol. Tanaka Citrus Exp. Stat. Japan 4: 179-205. Mr.1931, no.2.
Japanese, English summary: p.204-205.

Tanaka, Y.
The inter-relation between scion and stock in Citrus, with special reference to the influence of scion upon stock. Studia Citrol. Tanaka Citrus Exp. Stat. Japan 4: 213-227. Mr.1931. no.2.
Japanese, English summary: p.224-227.

Tijdschr. Plantenz.

Liernur, A.G.M.
Bijdrage tot de kennis der heksenbezems. Tijdschr. Plantenz. 37: 150-152. Jl.1931. no.7.

Slogteren, E. van.
Biologiese rassen. Tijdschr. Plantenz. 37: 137-149. pl.xii-xiii. Jl. 1931. no.7.

Trab. Mus. Nac. Cienc. Nat. Madrid Ser.Bot.

Miranda, F.
Sobre las algas y cianofíceas del Cantábrico especialmente de Gijon. Trab. Mus. Nac. Cienc. Nat. Madrid Ser.Bot. no.25. 106 p. illus. Mr.1931.

Trans. Wisc. Acad.

Davis, J. J.
Notes on parasitic fungi in Wisconsin. XVIII. Trans. Wisc. Acad. 26: 253-261. 1931.

Trans. Wisc. Acad. (cont.)

Preliminary reports on the flora of Wisconsin XII-XIV. Trans. Wisc. Acad. 26: 263-273, 275-279, 281-288. illus. (maps) 1931.

Polypodiaceae, E.W. Breakey & R.I. Walker - Fagaceae. D.F. Costello. - Hypericaceae. W.T. McLaughlin.

Wetzel, E. A.

Morphological studies of Erysiphe aggregata on Alnus incana. Trans. Wisc. Acad. 26: 241-252. pl.iii-iv. 1931.

U.S. Dept. Agr. Circ.

Ramsey, G.B. & Bailey, A.A.

Tomato late-blight rot, a serious transit and market disease. U.S. Dept. Agr. Circ.169. 10 p. illus. Jl.1931.

U.S. Dept. Agr. Farm. Bull.

Cox, H. R.

Weeds and how to control them. Issued May 12, 1915: rev. by F.V. Coville and M.W. Talbot Je.1931. U.S. Dept. Agr. Farm. Bull. 660. 28 p. illus. Je. 1931.

U.S. Dept. Agr. Off. Rec.

Copper cuts losses from rotting of wrapped fruit. United States Dept. Agr. Off. Rec. 10: 226. Ag.1, 1931. no.31.

Experiments of J.S. Cooley with pears at Hood River, Oregon.

Knowledge of effect of pollen on tissues of the mother plant aids date growers. U,S. Dept. Agr. Off. Rec. 10: 225-226. Ag.1, 1931. no.31.

Work of W.T. Swingle and R.W. Nixon.

Verh. Naturf. Ges. Basel.

Aellen, P.

Was ist das Chenopodium graveolens Willdenow? Verh. Naturf. Ges. Basel 41: 105-108. 1931.

Aellen, P.

Die wolladventiven Chenopodien Europas. Verh. Naturf. Ges. Basel 41: 77-104. 1931.

Welsh Journ. Agr. (Cardiff, Wales)

Davies, D.W. & Jones, E. T.

Grey speck disease of oats. Welsh Journ. Agr. 7: 349-358. 4 pl. Ja.1931 (Rec'd Ag.)

Wiss.Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Arland, A.

Krankheitsbefall, anfälligkeit, pflanzenernährung und winterfestigkeit in ihren beziehungen untereinander und zur transpiration. Wiss. Arch. Landw. Abt. A. Pflanzenbau 7: 79-125. 1931. no.1.

Schmidt, O.

Beitrage zur rassenfrage bei Heterodera schachtii. Wiss. Arch. Wiss. Landw. Abt.A. Pflanzenbau 7:147-168. illus. 1931. no.1.

Trischler, J.

Ernährungsphysiologische studien an dem schimmelpilze Aspergillus niger, als grundlage zur feststellung des kalibodürfnisses der boden. Wiss. Arch. Landw. Abt. A. Pflanzenbau 7: 39-78. illus. 1931. no.1.

Vassiljew, I. M.

Untersuchungen über die dynamik der kohlehydrate bei dem weizen. I. Einfluss der wasserversorgung auf die umwandlung der kohlenhydrate. Wiss. Arch. Landw. Abt. A. Pflanzenbau 7: 126-146. 1931. no.1.

Yearbk. Public Mus. Milwaukee.

Fuller, A. M.

Observations of a botanist in the southwest. Yearbk. Public Mus. Milwaukee 9(1929): 26-36. illus. My.15, 1931.

Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard. Nikita)(Ialta)

Masalab, N. A.

K voprosu o primenenii formalina v bor'be s gribnymi zabolevaniami tabachonoi rassady v parnikakh (The use of formaline in controling the fungus diseases of young tobacco plants in hot-beds). Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard. Nikita) 15: 39-62. illus. 1930(Rec'd Ag.1931) no.2.

Russian with English summary.

Zapiski Gosud. Nikitsk. Opytn. Bot. Sada. (Journ.Gov.Bot.Gard. Nikita)(cont.)

Paponov, N.V.
Materialy po selektsii vinograda na iuzhnom beregu Kryma (Materials for breeding grapes on the southern coast of the Crimea). Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard. Nikita) 16: 1-51. illus. 1931. no.1.
Russian with English summary.

Riabov, I. N.
Voprosy opyleniia i plodonosheniia plodovykh derev'ev (Pollination and fruiting of fruit trees) I Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard. Nikita) 14. 259 p. illus. 1930. (Rec'd Ag.1931)
Russian.
I. Survey of the literature.

Zeitschr. Bot. (Jena)

Fischer, O. & Lorenz, A.
Pollenanaltyische untersuchungen an mooren der Sudostalpen. Zeitschr. Bot. 24: 186-197. Ja.30, 1931. no.2/4.

Harnack, W.
Die entstehung des paarkernmyzels bei Collybia tuberosa Bull. und Schizophyllum commune Fr. Zeitschr. Bot. 24: 353-380. illus. My.27,1931. no.7.

Heilig, H.
Untersuchungen uber klima, boden und pflanzenleben des Zentralkaiserstuhls. Zeitschr. Bot. 24: 225-279. illus. Mr.9,1931. no.5/6.

Jost, L.
Zum hundertsten geburtstag Anton de Barys. Zeitschr. Bot. 24: 1-74. port. N.10,1930(Rec'd Ag.1931) no.1.

Mägdefrau, K.
Untersuchungen über die wasserdampfaufnahme. der pflanzen. Zeitschr. Bot. 24: 417-450. illus. Je.25,1931. no.8.

Zeitschr. Bot. (cont.)
Mainx, F.
Physiologische und genetische untersuchungen. an Oedogonien. I. Zeitschr. Bot. 24:481 527. illus. 1 pl. Jl.15, 1931. no.9.

Volk, O. H.
Beiträge zur Ökologie der sandvegetation der oberrheinischen tiefebene. Zeitschr. Bot. 24: 81-185. illus. Ja.30, 1931. no.2/4.

Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A. Wiss. Teil. (Leipzig)
Niethammer, A.
Kritisch vergleichende zucker-und katalasebestimmungen an samenmaterial der verschiedensten lebenskraft. Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A. Wiss. Teil. 21: 69-86. 1931. no.1/2.

Zeitschr. Pilzk. (Leipzig)
Kallenbach, F.
Sandpilze unserer deutschen binnendünen. Zeitschr. Pilzk. 15(n.s.10): 85-88. pl. 11. Je.30, 1931. no.3.

Neuhoff, W.
Kritsche gallertpilze. II. Die europäischen arten der gattung Tremella. Zeitschr. Pilzk. 15(n.s.10): 70-75. Je.30,1931. no.3.

Schäffer, J.
Die täublingsspore. Zeitschr. Pilzk. 15(n.s.10): 79-83. pl.10. Je.30, 1931. no.3.

Soehner, E.
Der Münchner karbolheidechampignon - Psalliota meleagris Schff.? Zeitschr. Pilzk. 15(n.s.10): 75-79. Je.30, 1931. no.3.

Zeitschr. Zuckerind. Cechoslovak. Rep.
Stehlik, V. & Neuwirth, F.
Okologie der aufgehenden rübe mit berücksichtigung ihrer krankheiten (cont.) Die atmung, das trocknen und baden des samens. Zeitschr. Zuckerind. Cechoslovak. Rep. 55: 207-214. Ja.16, 1931. no.2

Zentralbl. Bakt. Abt.II. (Jena)

Siemaszko, W.
Phytopathologische beobachtungen in Polen. II. Zentralbl. Bakt. Abt.II. 84: 248-251. Jl.20, 1931. no.8/14.

Der Züchter. (Berlin)

Gassner, G. & Straib, W.
Die künstliche rostinfektion von freilandpflanzen und ihre bedeutung für den pflanzenzüchter. Der Züchter 3: 240-243. illus. Jl.1931. no.7.

Gassner, G. & Straib, W.
Untersuchungen zur frage der biologischen spezialisierung des weizengelbrostes. Der Züchter 3: 229-240. illus. Jl.1931. no.7.

Tschermak, E.
Weizen-roggenbastarde und ihre züchterische verwertung. Der Zuchter 3: 244-248. illus. Jl.1931. no.7.

Exper.Stat.Publ.

Georgia agricultural experiment station.
Botany. In its Ann. Rep. 43(1930): 27-29. [1931]
B.B. Higgins botanist.

Plakidas, A. G.
Control of strawberry leaf blights in Louisiana. Louisiana Agr. Exp. Stat. Bull. 225, 21 p. illus. Jl. 1931.
Leaf spot (Mycosphaerella fragariae); Scorch (Diplocarpon earliana)

Martin, W. H.
Report of the Dept. of Plant pathology. Ann. Rep. New Jersey Agr. Exp. Stat. 51(1929/30): 235-268. illus. [1931]
Diseases of 1928 and 1929 arranged by hosts. Control of seed decay and damping-off of cucumbers, C.M. Haenseler. - Pathogenicity of Pestalotia spp. R.P. White.

Exper. Stat. Publ. (cont.)

New Jersey agricultural experiment station - Dept. of plant pathology.
Blight of rhododendrons. Its Nursery Dis. Notes 4(2): 1-3. Ag.1931.
Phytophthora cactorum.

New Jersey agricultural experiment station - Dept. of plant pathology.
Shoestring rot. Its Nursery Dis. Notes 4(2): 3-4. Ag. 1931.

Gourley, J. H. & Hopkins, E. F.
Nitrate fertilization and keeping quality of apple fruits. Ohio Agr. Exp. Stat. Bull. 479. 66 p. illus. Je.1931 (Rec'd Ag.)
Chemical, physiological and storage studies.

Rowley, H. K.
West Virginia weeds. West Virginia Agr. Exp. Stat. Circ.59. 35 p. illus. Jl.1931.

New Books

Lecomte, H. & Gagnepain, F.
Flore générale de l'Indo-Chine. v.5, fasc.10. Paris, Masson et cie., Ap.1931.
Fagacées (fin.) Bétulacées, par. A. Camus. Salicacées, par. L.A. Dode. Cératophyllacées, gnétacées, par J. Leandri, Taxacées, araucariacees, abiétacées, cupressacees, par R. Hickel, Cycadacées, par J. Leandri.

Mainland, A.M. comp.
Complete index to the articles on, and references to the Diatomaceae in the Transactions and journals of the Royal microscopical society. 1853-1915. London, 1928.

Sakharotrest, Moscow. - Sortovodno-semennoe upravlenie.
Mozaichnye bolezni sakharnoi svekly...(Mosaic diseases of the sugar beet...under the general editorship of V.P. Muraviov) Kiev, 1930.
Contributions by various authors, English summaries.

Tschirch, A.
Handbuch der pharmakognosie. 2. erweiterte aufl. lfg. 7. Leipzig, B. Tauchnitz,1931.

New Books (cont.)

Zahlbruckner, A.

Catalogus lichenum universalis bd. 7, bog. 31-40. Leipzig, Borntraeger, [1931]

Reprints from Journals not yet rec'd or not available.

Togashi, K.

Studies on the Valsa diseases of fruit and forest trees (Report II) Reprinted from Ann. Rep. Work of Saito Ho-on Kai no.5. p.139-142. D.1929.

Correction.

v.13, no.14, p.14, 4th entry
paging should read 153-160 not 157-

v.13, no.15, p.13, 2d heading should read Flor. Exch. and entry Flor. Exch. 77(14): 31. Ag.1, 1931.

BOTANY
CURRENT LITERATURE

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Vol.13, no. 17. Aug.17-29, 1931.

Amer. Fern. Journ.

Blomquist, H. L.
Some of the pteridophytes of North Carolina and their distribution. Amer. Fern Journ. 21: 81-90. illus. Jl./S.1931. no.3.

Dole, W. H.
Notes on a new Jersey fern garden. III. Amer. Fern Journ. 21: 103-106. incl. 1 pl. Jl./S.1931. no.3.

Ewan, J.
Recent fern notes from Southern California. Amer. Fern Journ. 21: 106-109. Jl./S.1931. no.3.

Schaffner, J. H.
Studies of Equiseta in European herbaria. Amer. Fern Journ. 21: 90-102. illus. Jl./S.1931. no.3.

Wherry, E. T.
Asplenium bradleyi erroneously reported on limestone again. Amer. Fern Fourn. 21: 111-113. Jl./S.1931. no.3.

Amer. Journ. Bot.

Cockefair, E. A.
The role of phosphorus in the metabolism of plants. Amer. Journ. Bot. 18: 582-597. Jl.1931. no.7.

Karling, J. S.
Studies in the Chytridiales. VI. The occurrence and life history of a new species of Cladochytrium in cells of Eriocaulon septangulare. Amer. Journ. Bot. 18: 526-557. pl.xliii-xliv. Jl.1931. no.7.
Gladochytrium replicatum n.sp.

McNair, J. B.
Some properties of plant waxes in relation to climate of habitat. Amer. Journ. Bot. 18: 518-525. Jl. 1931. no.7.

Amer. Journ. Bot. (cont.)

Macht, D. I.
Effect of some inorganic and organic mercurials on growth of Lupinus albus. Amer. Journ. Bot. 18: 598-602. Jl.1931. no.7.

Penfound, W. T.
Plant anatomy as conditioned by light intensity and soil moisture. Amer. Journ. Bot. 18: 558-572. illus. Jl.1931. no.7.

Waksman, S. A. & McGrath, J. M.
Preliminary study of chemical processes involved in the decomposition of manure by Agaricus campestris. Amer. Journ. Bot. 18: 573-581. Jl. 1931. no.7.

Young, E. M.
The morphology and cytology of Monascus ruber. Amer. Journ. Bot. 18: 499-517. pl.xxxix-xli. Jl. 1931. no.7.

Amer. Potato Journ.

Moore, H. C.
Notes on sprout tuber or no-top potatoes. Amer. Potato Journ. 8: 189-192. illus. Ag.1931. no.8.

Ann. Epiph. (Paris)

Arnaud, G.
Les astérinées V. Etude sur les champignons parasites: Caliciacées, hémispheriacées, etc. Ann. Epiph. 16: 235-302. illus., xiv pl. Je.10,1931. no.5.

Ann. Rep. Exp. & Res. Stat. Nursery & Mark. Gard. Industr.Devel. Soc. Cheshunt.

Bewley, W. F. & Corbett, W.
Mosaic disease of the tomato. Ann. Rep. Exp. & Res. Stat. Nursery & Mark. Gard. Industr. Devel. Soc. Cheshunt 16(1930): 56-62. 1931.

Bolas, B. D.
Physiological investigations of mosaic disease in the tomato. Ann. Rep. Exp. & Res. Stat. Nursery & Mark. Gard.Industr. Develop. Soc. Cheshunt 16(1930): 62-67. 1931.

Small, T.
Tomato leaf mould. Ann. Rep. Exp. & Res. Stat. Nursery & Mark. Gard. Industr. Devel. Cheshunt 16(1930): 40-56. 1931.

Ann. Rep. Exp. & Res. Stat. Nursery & Mark. Gard.Industr. Devel. Soc. Cheshunt. (cont.)

Williams, P. H.
Further studies of the mico-flora of certain tomato soils. Ann. Rep. Exp. & Res. Stat. Nursery & Mark. Gard.Industr. Devel. Soc. Cheshunt 16(1930): 30-40. 1931.

Arb. Biol. Reichsanst. Land- u. Forstw. Berlin.

Hiltner, E.
Zur biologie der kartoffel XI. mitteilung. Ueber die wirkung von schwefelwasserstoff und von sulfiden auf höhere pflanzen, insbesondere die kartoffel. Arb. Biol. Reichsanst. Land- u. Forstw. 19: 211-225. illus. Je.1931. no.2.
Mit einem bericht von F. Merkenschlager über sulfidversuche mit kartoffel in Dahlem.
*"See article at end of page."

Schwarz, O. & Klinkowski, M.
Zur biologie der kartoffel IX. mitteilung. Kartoffel und luzerne. Ein vergleich zweier pflanzlicher gegenbilder. Arb. Biol. Reichsanst. Land- u. Forstw. 19: 155-198. illus. Je.1931. no.2.

Ziegler, O.
Zur biologie der kartoffel. VIII. mitteilung. Kritische betrachtungen zur oekologie des abbaues. Arb. Biol. Reichsanst. Land- u. Forstw. 19: 135-154. Je. 1931. no.2.

Arch. Exp. Zellforsch. Gewebezücht.

Pfeiffer, H.
Beobachtungen an kulturen nackter zellen aus pflanzlichen beerenperikarpien. Arch. Exp. Zellforsch. Gewebezücht. 11: 424-434. 1931. no.3.

Arch. Rubbercult. Nederl.-Ind. (Batavia, Java)

Jacob, J. C. s'
Proeven over kunstmatige kruis- en zelfbestuiving bij Hevea brasiliensis. (Experiments on artificial cross- and self pollination of Hevea brasiliensis). Arch. Rubbercult. Nederl.-Ind. 15: 261-288. Je. 1931. no.6.
English summary: p.287-288.

*Merkenschalger, F., Scheer, W. & Klinkowski, M.
Zur biologie der kartoffel. X. mitteilung. Der Dahlemer abbauboden. Arb. Biol. Reichsanst. Land- u. Forstw. 19: 199-210. illus. Je.1931. no.2.

Bergcultures (Batavia, Java)
Bally, W.
Bestrijding van djamoer oepas in de koffie.
Bergcultures 5: 755-756. Jl.11, 1931. no.28.

Ber. Deut. Bot. Ges. (Berlin)
Blochwitz, A.
Der farbstoff der Penicilliopsis Solms-Laubach.
Ber. Deut. Bot. Ges. 49: 319-323. Jl.30, 1931. no.6.

Germ, H.
Ueber plasmosystrophe. Ber. Deut. Bot. Ges.
49: 311-318. illus. Jl.30,1931. no.6.

Hayata, B.
Ueber das dynamische system der pflanzen. Ber.
Deut. Bot. Ges. 49: 328-348. illus. Jl.30,1931.
no.6.

Mägdefrau, K.
Die fossile flora von Singen i. Thür. und die
pflanzengeographischen verhältnisse in Mitteleuropa
zur buntsandsteinzeit. Ber. Deut. Bot. Ges. 46:
298-308. illus. Jl.30,1931. no.6.

Molisch, H.
Beiträge zur mikrochemie der pflanze. 18. Ueber
eiweisskristalle in den sekretgängen der anacardiaceen.
Ber. Deut. Bot. Ges. 49: 324-327. Jl.30, 1931. no.6.

Posthumus, O.
Ueber die sogenannte neue keiltheorie. Ber. Deut.
Bot. Ges. 49: 309-310. Jl.30,1931. no.6.

Biochem. Zeitschr. (Berlin)
Michlin, D. & Severin, B.
Zur kenntnis der pflanzlichen oxydoredukase.
III. Ueber die nichtidentität der pflanzlichen
aldehydrase und mutase. Biochem. Zeitschr. 237:
339-342. Jl.24, 1931. no.4/6.

Bol. Agr. e Pec. Moçambique.
Gomes e Sousa,
Aspectos da flora de Moçambique. Bol. Agr.
e Pec. Moçambique 1930: 27-35. 3 pl. 1931. no.3/4.

Bol. Union Panamer. (Washington, D. C.)
Rolfs, P. H. & Rolfs, C.
Propagación de frutas cítricas en el Brasil. Bol. Union Panamer. 65: 469-491, 603-627, 735-753. illus. My.-Jl. 1931. no.5-7.

Boll. R. Staz.Patol. Veg. Roma (Firenze)
Del Giudice, E.
Alcune esperienze sull'azione anticrittogamica dello solfo. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 128-137. 1931. no.2.

Paolis, C. de.
Esperienze sopra l'azione che i prodotti di escrezione e del ricambio di Pythium sp. hanno sulla germinazione del grano. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 138-143. 1931. no.2.

Paolis, C. de.
Esperienze sul trattamento del grano con anticrittogamici a base di sali di mercurio. Boll. R. Staz. Patol. Veg. Roma. n.s., 11: 158-164. 1931. no.2.

Petri, L.
Maculatura interna ereditaria dei tuberi di patata. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 171-175. illus. 1931. no.2.

Petri, L.
Variegatura infettiva delle foglie di "Citrus vulgaris" Risso. Boll. R.Staz. Patol. Veg. Roma n.s., 11: 105-114. illus., col.pl. ii. 1931. no.2.

Rabinovitz Sereni, D.
Azione stimolante del biossido di carbonio sulla germinazione delle spore di Deuterophoma tracheiphila. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 143-152. illus. 1931.

Rabinovitz Sereni, D.
Perdita della facoltá germinativa delle spore di Deuterophoma tracheiphila alla fine del periodo primaverile. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 154-157. 1931. no.2.

Boll. R. Staz. Patol. Veg. Roma (cont)

Rabinovitz Sereni, D.
Sulla presenza degli stomi sull'epidermide della pagina superiore delle foglie di varie specie di Citrus. Boll. R. Staz. Patol. Veg. Roma n.s. 11:164-170. illus. 1931. no.2.

Ruggieri, G.
Sulla presunta influenza di certi terreni nel rendere resistenti "al mal secco" le piante di limone. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 170-171. 1931. no.2.

Sibilia, C.
Ricerche sulle ruggini dei cereali III. La germinazione delle teleutospore di Puccinia coronifera, P. triticina e P. graminis. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 115-128. illus. 1931. no.2.

Sibilia, C.
Ulteriori notizie sulla "gincochiatura" del grano. Boll. R. Staz. Patol. Veg. Roma n.s., 11: 152-154. 1931. no.2.

Brooklyn Bot. Gard. Rec.

Reed, G. M.
Hybrids of Iris fulva and Iris foliosa. Brooklyn Bot. Gard. Rec. 20: 243-253. col.pl. Jl.1931.

Bryologist (Pittsburg)

Allison, K. W.
Mosses and their habitats in the Atiamuri district, New Zealand. Bryologist 34: 29-37. My.1931. no.3.

Brinkman, A. H.
Notes on some Canadian hepatics, no.2. (concl.) Bryologist 34: 38-44. My.1931. no.3.

Pitman, H.
Bryology notes from Panther Pond, Raymond, Maine, U. S. A. Bryologist 34: 37-38. My.1931. no.3.

Bull. Bern. P. Bishop. Mus. (Honolulu)

Christophersen, E. & Caum, E. L.
Vascular plants of the Leeward Islands, Hawaii. Bull. Bern. P. Bishop Mus. 81. 41 p. illus.(maps), xvi pl. on 8. Jl.1,1931.
Cyperus pennatiformis, Amarantus brownii, Schiedea verticillata n.spp.

Bull. Iowa Geol. Surv.

Pammel, L. H. & others.

Honey plants of Iowa. Bull. Iowa Geol. Surv. v.7. 1192 p. illus., col. front. 1930.

Bull. Mus. Hist. Nat. Paris.

Bouly de Lesdain, M.

Quelques lichens de l'herbier du Muséum récoltés en Afrique occidentale per M. Aug. Chevalier. Bull. Mus. Hist. Nat. Paris II, 3: 373. Mr./Ap. 1931. no.3/4.

Parmentaria chevalieri, sp.nov.

Camus, A.

Le Triplachne nitens Link. Bull. Mus. Hist. Nat. Paris II, 3: 161-162. Ja.1931. no.1.

Camus, A.

Les variétés françaises de l'Hedysarum obscurum L. Bull. Mus. Hist. Nat. Paris II,3: 371-372. Mr./Ap.1931. no.3/4.

Chevalier, A.

Nouveau voyage d'études en Afrique occidentale française. Bull. Mus. Hist. Nat. Paris II,3: 181-191. Ja.1931. no.1.

Chevalier, A.

Sur un Hirtella nouveau de l'Ouest Africain. Bull. Mus. Hist. Nat. Paris II,3: 192-195. Ja.1931. no.1.

H. fleuryana.

Chouard, P.

Révision de quelques genres et sous-genres de lilaicées bulbeuses d'après le développement de l' appareil vegetatif. (Scilla, Endymion, Hyacinthus) III. Extension à d'autres groupes de scillées. Bull. Mus. Hist. Nat. Paris II,3: 176-180. Ja.1931. no.1.

Gagnepain, F.

Pholidota nouveau d'Asie. Bull. Mus. Hist. Nat. Paris II, 3: 145-147. Ja.1931. no.1.

P. annamensis, P.kouytcheensis, P. missionariorum, P. schlechteri (P. yunnanensis)

Bull. Mus. Hist. Nat. Paris (cont.)

Guillaumin, A.
Plantes nouvelles ou critiques des serres du Muséum. (suite). Bull. Mus. Hist. Nat. Paris II, 3: 173-175. Ja.1931. no.1.
Odontoglossum cochlearilabris n.sp.

Leandri, J.
Croton nouveau de Madagascar. Bull. Mus. Hist. Nat. Paris II,3: 367-370. Mr./Ap. 1931. no.3/4.
C. denisi, C. geayi, C. perrieri, C. decaryi.

Leandri, J.
Révision des thyméléacées de Madagascar. (cont.) Bull. Mus. Hist. Nat. Paris II,3: 148-160. Ja.1931. no.1.
Lasiosiphon waterloti, n.sp.

Pellegrin, F.
Didissandra (gesnéracées) nouveaux d'Indo-Chine. Bull. Mus. Hist. Nat. Paris II,3: 255-257. F.1931. no.2.
D. evrardi, D. petelotii, D.clemensiae.

Russell, W.
Anatomie de l'Hirtella fleuryana. Bull. Mus. Hist. Nat. Paris II,3: 196-197. Ja.1931. no.1.

Tisserant, C.
Indigoferas d'Afrique (légumineuses-papilionées) Bull. Mus. Hist. Nat. Paris II,3: 163-172. Ja.1931. no.1.

Tisserant, C.
Révision des Indigofera ouest-africains de l' herbier du muséum. Bull. Mus. Hist. Nat. Paris II, 3: 258-272. F.1931. no.2.

Bull. Pan Amer. Union

Moore, G. T.
Latin America and the queen of flowers. Bull. Pan Amer. Union 65: 804-812. illus. Ag.1931. no.8.
Orchids.

Bull. Soc. Centr. For. Belgique (Bruxelles)
De l'influence des gelées sur le développement du chancre du mélèze. Bull. Soc. Centr. For. Belgique 38: 291-296. Jl.1931. no.7.

La maladie et les ennemis des ormes. Bull. Soc. Centr. For. Belgique 38: 296-302. Jl.1931. no.7.
Diseases: p.296-299.

Bull. Soc. Hist. Nat. Afr. Nord. (Alger)
Thériot, I.
Mousses du Sahara récoltées par la Mission du Hoggar. Bull. Soc. Hist. Nat. Afr. Nord 22: 158-168. illus. Je.1931. no.6.
Fissidens antineae, Trichostommum armatum, Crossidium laevipilum, Tortula mairei, Brachymenium saharicum n.spp.

Bull. Utsunomiya Agr. Coll. Japan.
Kagawa, F.
Chromosome studies of a species cross in Aegilops. Bull. Utsunomiya Agr. Coll. Japan 1: 57-60. illus. Ap.1931.

Chem. Umschau. (Stuttgart)
Freise, F. W.
Ueber einige weniger bakannte brasilianische palmöle. Chem. Umschau 38: 216-219. Jl.29, 1931. no.15.

Citrus Indust. (Tampa, Fla.)
Bach, W. J.
Green algae and lichens on citrus. Citrus Indust. 12(8): 17,24. Ag.1931.

Erdész, Kisérl. (Hungary) (Sapron)
Sóo, R.
Összehaxonlító erdei vegétaciótanulmányok az alpokban, a kárpátokban és a Magyar középhegységben (Vergleichende waldvegetationsstudien in den Zentralalpen, Karpathen und dem ungarischen mittelgebirge.) I. Bükkös és lücos erdötipusok, alhavasi csergjések. (Buchen- und fichtenwaldtypen, subalpine gebüsche). Erdész. Kisérl. (Hungary) 32: 439-475. Jl. 1931. no.3/4.
Hungarian with German summary.

Forstarchiv. (Hannover)
Trénel, M.
Beitrag zum keifernsterben in nordwest-Deutschland. Forstarchiv. 7: 287-294. illus. Ag.1, 1931. no.15.
Oedocephalum.

Fortschr. Landw. (Vienna)
Köck, G.
Ueber das verhalten der verschiedenen kartoffelsorten gegenüber dem erreger der kartoffelknollenfäule (Phytopathora infestans). Fortschr. Landw. 6: 518-522. Ag.15, 1931. no.16.
*"See article at end of page."

Gard. Bull. Straits Settlem. (Singapore)
Burkill, I. H.
An enumeration of the species of Paramignya, Atalantia and Citrus, found in Malaya. Gard. Bull. Straits Settlem. 5: 212-223. Je.3,1931. no.7/8.

Burkill, I. H.
Erythropsis colorata, Burkhil, comb.nov. Gard. Bull. Straits Settlem. 5: 231. Je.3,1931. no.7/8.

Burkill, I. H.
Herpestis monniera, H.B. and K. as pa-chi-t'-ien. Gard. Bull. Straits Settlem. 5: 231. Je.3, 1931. no.7/8.

Burkill, I. H.
Notes on Gluta in Malaya. Gard. Bull. Straits Settlem. 5: 224-230. Je.3, 1931. no.7/8.

Henderson, M. R.
Halophila spinulosa (R.Br.) Aschers. Gard. Bull. Straits Settlem. 5: 240. Je.3, 1931. no.7/8.
Found in coast waters of Malay Peninsula.

Henderson, M. R.
The "Padang" flora of Jemaja, in the Anamba Islands, N.E.I. Gard. Bull. Straits Settlem. 5: 234-240. Je.3,1931. no.7/8.

*Schmalfuss, K.
Ueber die rolle des kaliums im stoffwechsel der pflanze. Fortschr. Landw. 6: 526-528. Ag.15,1931. no.16.
Vorläufige mitteilung.

Gard. Bull. Straits Settlem. (cont.)

Holttum, R. E.
Aspidium maingayi (Baker) Holttum, comb.nov. Gard. Bull. Straits Settlem. 5: 207-209. 2 pl. Je.3, 1931. no.7/8.

Holttum, R. E.
On periodic leaf-change and flowering of trees in Singapore. Gard. Bull. Straist Settlem. 5: 173-206. Je.3,1931. no.7/8.

Smith, J. J.
Vanda x Boumaniae, J. J. S. Gard. Bull. Straits Settlem. 5: 232-233. Je.3,1931. no.7/8.

Gard. Chron. (London)

Anderson, A. W.
Some plant affinities of New Zealand and South America. (concl.) Gard. Chron. III, 90: 108-109, 137-138. Ag.8, 15, 1931. no. 2328-29.

Brown, N. E.
Mesembryanthemum. (cont.) Gard. Chron. III, 90: 136-137. Ag.15, 1931. no.2329.
Conisodia pugioniformis, C. brevicaulis, C. comcumis.

Ogilvie, L. & Mulligan, B. O.
Pea sickness. An important disease of field peas. Gard. Chron. III, 90: 122. illus. Ag.8,1931. no.2328.
Heterodera schachtii associated with Fusarium martii pisi.

Redgrove, H. S.
The cultivation of essential-oil and drug-yielding plants in Great Britain. Gard. Chron. III, 90: 134-135. illus. Ag.15,1931. no.2329.

Ward, F. K.
Two Burmese primulas. Gard.Chron. III, 90: 130-131. Ag.15,1931. no.2329.
See also omitted entries at end of main List.

Gartenbauwiss. (Berlin)

Honig, F.
Der kohlkropferreger (Plasmodiophora brassicae Wor.) Eine monographie. Gartenbauwiss. 5: 116-225. illus. Jl.17,1931. no.2/3.

Gartenbauwiss. (cont.)
Petrak, F.
Beiträge zur kenntnis einiger pilzkrankheiten der kakteen. Gartenbauwiss. 5: 226-247. illus. Jl.17, 1931. no.2/3.
Helminthosporium cactivorum, n.sp.

Heil & Gewürz-Pflanzen. (Munich)
Harzell, H.
Die deutschen namen der einheimischen heilpflanzen. (concl.) Heil & Gewürz-Pflanzen 13: 137-142. Jl.20, 1931. no.3/4.

Ice & Refrig.
Brooks, C.
Effects of solid carbon dioxide upon transportation diseases. Ice & Refrig. 81: 48-50. Jl.1931. no.1.
Effects of temperature and carbon dioxide exposures on shipments of diversified fruits and berries tested and compared; rot control discussed.

Intern. Sugar Journ. (London)
Hill, A. W.
The Uba cane. Some further evidence as to its origin. Intern. Sugar Journ. 33: 379-382. Ag. 1931. no.392.

Irish Nat. Journ.
White, J. M.
Pollen analysis of peat from Stoneyisland, Portumna, Co. Galway. Irish Nat. Journ. 3: 210-214. Jl.1931. no.10.

Journ. Agr. Prat. (Paris)
Lesourd, F.
Histoire des plantes. Lupuline (Medicago lupulina L.) (cont.) Journ. Agr. Prat. n.s., 56(2): 96-97. illus. Ag.1, 1931. no.31.

Journ. Amer. Soc. Agron. (Geneva, N. Y.)
Meyer, A. H.
Some neglected soil factors in plant growth. Journ. Amer. Soc. Agron. 23: 606-625. illus. Ag. 1931. no.8.

Journ. Amer. Soc. Agron. (cont.)

Waldron, L. R.
Frost injury to spring wheat with a consideration of drouth resistance. Journ. Amer. Soc. Agron. 23: 625-637. Ag.1931. no.8.

Journ. Amer. Pharm. Assoc. (Easton, Pa.)

Youngken, H. W.
The pharmacognosy, chemistry and pharmacology of Viburnum I-II. Journ. Amer. Pharm. Assoc. 19: 680-704. illus. Jl.1930: 20: 315-328. illus. Ap.1931.

Journ. Bot. (London)

Drabble, E. & Little, J. E.
The British veronicas of the Agrestis group. (concl.) Journ. Bot. 69: 201-205. Ag.1931. no.824.

Grove, W. B.
Cochlearia danica, a minute form. Journ. Bot. 69: 216. Ag.1931. no.824.

Mason, F. A.
Entomogenous fungi from a Dervyshire cave: Stilbella kervillei Lindau, newly recorded in Britain. Journ. Bot. 69: 205-207. Ag.1931. no.824.

Rendle, A. B.
Thomas Ford Chipp (1886-1931) Journ. Bot. 69: 214-216. Ag.1931. no.824.

Salisbury, E. J.
Silene conica in East Suffolk. Journ. Bot. 69: 216-217. Ag.1931. no.824.

Weintroub, D.
Novitates africanae. New species of Oxalis. Journ. Bot. 69: 207-211. Ag.1931. no.824.

Wolley-Dod, A. H.
A revision of the British roses. (cont.) Journ. Bot. v.69, suppl. p.65-72. Ag.1931. no.824.

Journ. Dept. Agr. Porto Rico. (Rio Piedras)

Cook, M. T.
The effect of mosaic on cell structure and chloroplasts. Journ. Dept. Agr. Porto Rico 15: 177-181. pl.ix-xiv. Je.1931. no.2.

Cook, M. T.
The leaf spot of tobacco; an after symptom of mosaic. Journ. Dept. Agr. Porto Rico 15: 183-187. pl.xiv. Je. 1931 no.2.

Cook, M. T.
New virus diseases of plants in Porto Rico. Journ. Dept. Agr. Porto Rico 15: 193-195. pl.xv-xix. Je.1931. no.2.
Mosaic diseases of Crotalaria striata, Commelina longicaulis, Sida carpinifolia & S. rhombifolia, Andenoropium gossypifolium and ipomoea nil. Virus diseases of Carica papaya & Abutilon hirtum.

Cook, M. T.
Some undescribed symptoms of mosaic in Porto Rican tobacco. Journ. Dept. Agr. Porto Rico 15: 189-191. Je.1931. no.2.

Journ. Dept. Agr. West. Austral. (Perth)

Elliott, H. G.
Preliminary report on the use of calcium and sodium chlorates as weed killers. Journ. Dept. Agr. West. Austral. II, 8: 319-321. no.2.

Limbourn, E. J.
Flag smut of wheat. Variety resistance tests, 1926-1930. Journ. Dept. Agr. West. Austral. II, 8: 214-217. Je.1931. no.2.

Pittman, H. A.
"Downy mildew" (so-called "blue mould") of tobacco. The industry's most serious menace, and how to combat it. Journ. Dept. Agr. West. Austral. II, 8: 264-272. illus. Je.1931. no.2.

Journ. Genetics (London)

Darlington, C. D.
The cytological theory of inheritance in Oenothera. Journ. Genetics 24: 405-474. illus., pl.xii. Jl.1931. no.3.

Journ. Genetics (cont.)

Hutchinson, J. B.
The genetics of cotton. IV. The inheritance of corolla colour and petal size in Asiatic cottons. Journ. Genetics 24: 325-353. pl.x (col.) Jl. 1931. no.3.

Lawrence, W. J. C.
The genetics and cytology of Dahlia variabilis. Journ. Genetics 24: 257-306. illus., pl. ix (col.) Jl. 1931. no.3.

Lawrence, W. J. C.
Mutation or segregation in the octoploid Dahlia variabilis. Journ. Genetics 24: 308-324. illus. Jl. 1931. no.3.

Philp, J. & Huskins, C. L.
The cytology of Matthiola incana R.Br. especially in relation to the inheritance of double flowers. Journ. Genetics 24: 359-404. illus., pl.xi. Jl, 1931. no.3.

Journ. Helminth. (London)

Triffitt, M.J.
On the eelworm Heterodera schachtii attacking peas in Britain. Journ. Helminth. 3: 175-178. Jl. 1931. no.3.

Journ. Indian Bot. Soc. (Madras)

Blatter, E. & McCann, C.
Two new Utricularias from the western chats. Journ. Indian Bot. Soc. 10: 122-125. 4 pl. Ap. 1931. no.2.
Utricularia equisticaulis, U. ogmosperma, sp.nov.

Blatter, E.
Waziristan mosses, with some new species described by H.N. Dixon. Journ. Indian Bot. Soc. 10: 145-153. Ap.1931. no.2.
Leptopterigynandrum brevirette, Brachythecium microsericeum n.spp. Stereodon cupressiformis var. vaucherianus var.nov.

Journ. Indian Bot. Soc. (cont.)

Chaudhuri, H.
Nutritive saltation in fungi. Journ. Indian Bot. Soc. 10: 154. Ap.1931. no.2.

Chaudhuri, H. & Akhtar, A.R.
A study of the root-tubercles of Podocarpus chinensis. Journ. Indian Bot. Soc. 10: 92-99. 2 pl. Ap.1931. no.2.

Dastur, R. H. & Kapadia, G. A.
The anatomy of climbing plants. Journ. Indian Bot. Soc. 10: 110-121. illus, 2 pl. Ap.1931. no.2.

Krishnamurti, C.S.
A note on the occurrence of bicarpellary pistils in the flower of Saraca indica. Journ. Indian Bot. Soc. 10: 159. 1 pl. Ap.1931. no.2.

Mullan, D. P.
A note on the development of adventitious roots from the petioles of the leaves of some Acanthaceae and Labiatae. Journ. Indian Bot. Soc. 10: 167-168. 1 pl. Ap.1931. no.2.

Mullan, D. P.
Observatons on the water-storing devices in the leaves of some Indian halophytes. Journ. Indian Bot. Soc. 10: 126-133. 3 pl. Ap.1931. no.2.

Patwardhan, G. B.
A preliminary note on inheritance in castors. Journ. Indian Bot. Soc. 10: 100-109. 1 pl. Ap. 1931. no.2.

Patwardhan, G. B.
Some more plants developing adventitious roots from leaves. Journ. Indian Bot. Soc. 10: 165-166. Ap.1931. no.2.

Raizada, M. B.
Contribution to "Duthie's flora of the Upper Gangetic Plain" from the neighborhood of Dehra Dun. Journ. Indian Bot. Soc. 10: 155-158. Ap. 1931. no.2.

Sing, U. B.
Studies in the genus Cercospora. Journ. Indian Bot. Soc. 10: 73-91. illus., pl. i-ii. Ap.1931. no.2.

Journ. Indian Bot. Soc. (cont.)

Singhi, T.C.N.
On the teratology of certain Indian plants. VI. Journ. Indian Bot. Soc. 10: 134-138. 1 pl. Ap.1931. no.2.

Sinha, B. N.
Notes on the teratology of certain Indian plants. VII. Journ. Indian Bot. Soc. 10: 160-164. 1 pl. Ap.1931. no.2.

Solomon, R.
The anatomy of caudex and root of Eriocaulon septangulare. Journ. Indian Bot. Soc. 10: 139-144. 2 pl. Ap.1931. no.2.

Journ. Malayan Br. Roy. Asiatic Soc.

Strugnell, E. J. & Willbourn, E. S.
An ascent of Gunog Benom from Raub. Journ. Malayan Br. Roy. Asiatic Soc. 9: 15-27. illus. (map), pl.v-viii. My.1931. no.1.
Vegetation: p.24-27.

Journ. Mysore Agr. & Exp. Union.

Narasimhan, M. J.
Sexuality of the Koleroga fungus. Phytopthora arecae (Cohn) Pethyb. Journ. Mysore Agr. & Exp. Union 12: 4-7. 3 pl. on 2. 1931. no.1.

Journ. N.Y. Bot. Gard.

Britton, N.L.
Recent scientific observations in Porto Rico. Journ. N.Y. Bot. Gard. 32: 185-193. Ag.1931. no.380.

Rusby, H. H.
The largest cactus? Journ. N.Y. Bot. Gard. 32: 193. illus. Ag.1931. no.380.
Found in Bolivia, general habit of tree is that of Myrtillocactus.

Small, J. K.
Salvaging the native American irises. Journ. N.Y. Bot. Gard. 32: 175-184. illus. Ag.1931. no.380.
In Louisiana.

Journ. Soc. Trop. Agr. Japan. (Taiwan)

Kudo, Y.
Materials for a flora of Formosa. IV.
Journ. Soc. Trop. Agr. Japan 3: 110-111.
Je. 1931. no.2.

Masamune, G.
Contribution to our knowledge of the flora of the southern part of Japan V. Journ. Soc. Trop. Agr. Japan 3: 113-115. Je. 1931. no.2.

Matsumoto, T. & Okabe, N.
On the causal organisms of the bacterial soft rot of kotyô-ran, Phalaenopsis aphrodite Reichb.f.
Journ.Soc. Trop. Agr. Japan 3: 117-133. pl.4
Je.1931. no.2.
Bacillus carotovorus designated as type B.

Nakamura, M.
Calyological (!) studies on the genus Rhododendron.
Journ. Soc. Trop. Agr. Japan 3: 103-108. pl.3.
Je. 1931. no.2.

Yamamoto, R.
On the organic acids and vitamin C in the fruit of Ceylon-olive (Elaeocarpus serratus Linn.)
Journ. Soc. Trop Agr. Japan 3: 135-138. Je.1931.
no.2.
In Japanese, with English summary: p.138.

Journ. S. E. Agr. Coll. Wye.

Bagenal, N. B.
The control of apple scab. I-II. Journ. S.E. Agr. Coll. Wye 28: 188-205. illus. 1931.
I. Bramley's seedling. By N.B. Bagenal, W. Goodwin, E. S. Salmon & W. M. Ware. II, Allington Pippin and Newton wonder. By W. Goodwin, E.S. Salmon & W. N. Ware.

Green, N.K., Moffatt, J.R. & Parkinson, S.T.
Identification of commercial species of pea and bean seeds. Journ. S.E. Agr. Coll. Wye 28: 29-40. illus. 1931.

Harrison, R. M.
Weeds surveys, 1930. Journ. S. E. Agr. Coll. Wye 28: 41-47. 1931.

Journ. S.E. Agr. Coll. Wye (cont.)

Salmon, E.S. & Ware, W.M.
Report from the Mycological department.
Journ. S.E., Agr. Coll. Wye 28: 48-56. 1931.

Salmon, E.S. & Ware, W.M.
An unusual form of hop canker. Journ. S.E. Agr. Coll. Wye 28: 62-64. illus. 1931.
Fusarium, "parts of the vine, not at the extreme base, and even above the ground were infected".

Ware, W.M.
A blossom wilt of lavender caused by Botrytis cinerea. Journ. S.E. Agr. Coll. Wye 28: 206-210. illus. 1931.

Journ. Washington Acad. Sci.

Blake, S. F.
Nine new American Asteraceae. Journ. Washington Acad. Sci. 21: 325-336. Ag.19, 1931. no.14.

Killip, E.P. & Morton, C.V.
The genus Lozanella. Journ. Washington Acad. Sci. 21: 336-339. Ag.19, 1931. no.14.
L. permollis, sp.nov.

Kranke Pflanze. (Dresden)

Esmarch, F.
Das mutterkorn. Kranke Pflanze 8: 113-115. Ag.1931. no.8.

Fabel, W.
Starkes auftreten der spinatwelke (Pythium ultimum Trow.) in Krankreich. Kranke Pflanze 8: 99-100. Je./Jl. 1931. no.6/7.

Klöbahn, H.
Die stammfäule der tomaten. Kranke Pflanze 8: 93-96. Je./Jl.1931. no.6/7.

Landw. Jahrb. Bayern. (München)

Weihenstephan, Germany. Staatlichen lehr- und forschungsanstalt für gartenbau.
Pflanzenschuts. (1929-1930) Landw. Jahrb. Bayern. 21: 201-214. illus. 1931. no.5/7.
Braunfleckenkrankheit der tomate und ihre bekämpfung. Schorfbekämpfungsversuche am apfelbaum. Himbeerutenkrankheit und ihre bekämpfung. Winterforstschaden an johannisbeeren. Verkümmerungserscheinungen an rettichwurzeln.

Madras Agr. Journ.

Parthasarathy, N.

A note on Oryza sativa var. (plena) Prain. Madras Agr. Journ. 19: 290-294. 1 pl. Jl. 1931. no.7.

Mitt. Deut. Landw. Ges. (Berlin)

Weber, C. A.

Ist kammgras auf den weiden als unkraut zu betrachten? Mitt. Deut. Landw. Ges. 46: 725-726. Ag.15, 1931. no.33.

Cynosurus cristatus.

Monatsschr. Deut. Kakteen-Ges. (Berlin)

Backeberg, C.

Cereus lanatus und seine verwandtschaft in Peru. Monatsschr. Deut. Kakteen-Ges. 3: 155-159. illus. Jl.1931 (Rec'd Ag.) no.7.

Cereus sericatus sp.n.

Backeberg, C.

Das kakteenvorkommen von Trinidad bis Carbisch-Kolumbien. Monatsschr. Deut. Kakteen-Ges. 3: 64-67. Mr. 1931 (Rec'd Ag.) no.3.

Bödeker, F.

Coryphantha georgii Böd., spec.nova. Monatsschr. Deut. Kakteen-Ges. 3: 163-164. illus. Jl. 1931. (Rec'd Ag.) no.7.

Bödeker, F.

Etwas uber Mamillaria (Coryphantha) echinus Engelm. Monatsschr. Deut. Kakteen-Ges. 3: 136-137. illus. Je.1931 (Rec'd Ag.) no.6.

Bödeker, F.

Mamillaria balsasensis Bod., spec.nov. Monatsschr. Deut. Kakteen-Ges. 3: 121-122. illus. My. 1931 (Rec'd Ag.) no.5.

Bödeker, F.

Mamillaria surculosa Böd. sp.n. Monatsschr. Deut. Kakteen-Ges. 3: 78-80. illus. Ap.1931(Rec'd Ag.) no.4.

Bödeker, F,

Ueber einige schwierig zu erkennende coryphan[illegible] then. Monatsschr. Deut.Kakteen-Ges. 3: 13-15. illus. Ja.1931 (Rec'd Ag.1931) no.1.

Monatsschr. Deut. Kakteen-Ges. (cont.)

Bödeker, F.
Ueber Mamillaria (Neomamill.) saffordii Rose und Mamillaria carrettii Reb.cat. Monatsschr. Deut.Kakteen-Ges. 3: 80-81. illus. Ap.1931 (Rec'd Ag.) no.4.

Bödeker, F.
Was ist Mamillaria brandegeei Eng. und was ist Mamillaria gabbii Eng.? Monatsschr. Deut. Kakteen-Ges. 3: 50-52. illus. Mr.1931. (Rec'd Ag.) no.3.

Grossmann, M.
3 jahre kakteen im ultravioletten licht. Monatsschr. Deut.Kakteen-Ges. 3: 145-148. illus. Je. 1931. (Rec'd Ag.) no.6.

Herre, H.
Eine sammelreise nach Namaqualand. Monatsschr. Deut. Kakteen-Ges. 3: 1-12, 25-36. illus. Ja., F. 1931 (Rec'd Ag.) no.2.

Kupper, W.
Cephalocereus günthori n.sp. Monatsschr. Deut. Kakteen-Ges. 3: 159-162. illus. Jl.1931(Rec'd Ag.) no.7.

Tischer, A.
Schöne mesembrianthemen und ihre kultur. (cont.) Monatsschr. Deut. Kakteen-Ges. 3: 41-43, 56-60, 181-189. F., Mr., Ag. 1931 (Rec'd Ag.) no.3-4,8.

Wagner, E.
Alwin Berger. Monatsschr. Deut. Kakteen-Ges. 3: 151-152. port. Jl.1931. (recd Ag.) no.7.

Weingart, W.,
Der blutenstand des Cereus lanatus DC. Monatsschr. Deut. Kakteen-Ges. 3: 153-155. Jl.1931 (Rec'd Ag.) no.7.

Weingart, W.
Cereus mieckleyanus spec.nov. Monatsschr. deut. Kakteen-Ges. 3: 189-191. illus. Ag.1931. no.8.

Weingart, W.
Cereus tominensis spec.nov. Monatsschr. Deut. Kakteen-Ges. 3: 117-120. illus. My.1931(Rec'd Ag.) no.5.

Monatsschr. Deut. Kakteen-Ges. (cont.)

Weisse, A.
Morphologische studien an sämlingen einiger Echinocactus- Melocactus-und Mamillaria-arten. Monatsschr. Deut. Kakteen-Ges. 3: 103-116, 127-135. illus. My., Je., 1931 (rec'd Ag.) no.5,6.

Werdermann, E.
Echinocactus stumeri Werd., spec.nov. Monatsschr. Deut. Kakteen-Ges. 3: 122-125. illus. My. 1931. (Rec'd Ag.) no.5.

Werdermann, E.
Echinocactus viereckii Werd. n.sp. Monatsschr. Deut.Kakteen-Ges. 3: 175-176. illus. Ag.1931. no.8.

Werdermann, E.
Ueber Echinopsis caespitosa I.A. Purp. Monatsschr. Deut.Kakteen-Ges. 3: 165-167. illus. Jl. 1931 (Rec'd Ag.) no.7.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)

Kordes, H.
Eine durch bakterien hervorgerufene blattfleckenkrankheit der gurken. Nachrichtenbl. Deut. Pflanzenschutzd. 11: 63-64. illus. Ag.1931. no.8.
No organism given.

Nature (London)

Bews, J.W.
The ecological viewpoint. Nature 128: 245-248. Ag.15, 1931. no.3224.

Rao, L. R.
Occurrence of Lithothammion in the South Indian Cretaceous. Nature 128: 225-226. illus. Ag.8, 1931. no.3223.

Nature Mag. (Washington, D.C,)

Pellett, F.C.
Honey plants where the bee sucks. Nature Mag. 48: 184-188. illus. S.1931. no.3.

Naturforsch. (Berlin)

Arndt, A.
Die kohldistel. Naturforsch. 8: 162-163. Ag.1931. no.5.
Cirsium oleraceum.

Naturwissensch. (Berlin)

Pringsheim, E.G.

Die bedeutung der zellwand für den wasserhaushalt der pflanzen. Naturwissensch. 19: 697-702. Ag.14, 1931. no.33.

New Phytol. (London)

Arber, A.

Studies in floral morphology. II. On some normal and abnormal crucifers: with a discussion on teratology and atavism. New Phytol. 30: 172-203. illus. Jl.31, 1931. no.3.

Good, R. D.

A theory of plant geography. New Phytol. 30: 149-171. Jl.31, 1931. no.3.

Gregor, J.W.

Experimental delimitation of species. New Phytol. 30: 204-217. illus. Jl.31, 1931. no.3.

Phleum.

Johnson, C.

Demonstration of peristome tooth movements. New Phytol. 30: 218-219. illus. Jl.31,1931. no.3.

Funaria.

Nord. Jordbrugsforskn. (København)

Tedin, O.

Undersökningar över ljusets iverkan pa groningen av tomatfrön. Nord. Jordbrugsforskn. 1931: 108-126. no.2/3.

English summary: p.123-125 (Effect of full light, darkness and violet light upon the germination of tomato seed).

Occas. Papers Bern. P. Bishop Mus.

Christopherson, E.

Notes on Joinvillea. Occas. Papers Bern. P. Bishop Mus. v.9, no.12. 7 p. illus. F.25,1931.

Christopherson, E.

Vascular plants of Johnston and Wake Islands. Occas. Papers Bern. P. Bishop Mus. v.9, no.13. 20p. illus. (incl.maps) My.1931.

Philipp. Agr. (Los Banos)

Domano, F. V.

A study of the chemical composition of four sugar cane varieties of the same age and grown under similar conditions. Philipp. Agr. 20: 139-145. Jl.1931. no.2.

Stevens, F.L.

New or noteworthy Philippine fungi. Philipp. Agr. 20: 87-91. illus. Jl.1931. no.2.

Aecidium ocfemianum, Uredo ocfemiana, Empusa grylli, Cephalosporium crassum, Cordyceps podocreoides, n.sp.

Philipp. Journ. Sci. (Manilla)

Humphrey, C. J. & Leus, S.J.

A partial revision of the Ganoderma applanatum group, with particular reference to its oriental variants. Philipp. Journ. Sci. 45: 483-589. illus., pl. 1-36. Ag.1931. no.4.

Phytopath. Zeitschr. (Berlin)

Brandenburg, E.

Die herz-und trockenfaule der rubenwals bormangelerscheinung. Phytopath. Zeitschr. 3: 499-517. illus. 1931. no.5.

Brehmer, W. v.

Histologische und mikrochemische untersuchungen über pathologische gewebeveränderungen viruskranker kartoffelstauden. Phytopath. Zeitschr. 3: 471-498. illus. 1931. no.5.

Fischer, E.

Anton de Bary und die phytopathologische forschung. Phytopath. Zeitschr. 3: 465-470. port. 1931. no.5.

Krohn, V.

Die ersten funde von Phytomonas maculicola McCullough (sic) in Suomi. Phytopath. Zeitschr. 3: 531-532. 1931. no.5.

Wenzel, A.

Beiträge zur kenntnis der blattfleckenkrankheiten der zuckerrübe. Phytopath. Zeitschr. 3: 519-529. illus. 1931. no.5.

Cercospora beticola, Ramularia betae, Alternaria tenuis.

Planta Arch. Wiss. Bot. (Berlin)

Cholodny, N.
Zur physiologie des pflanzlichen wuchshormons. Planta Arch. Wiss. Bot. 14: 207-216. illus. Jl.27,1931. no.1.

Fedortschuk, W.
Embryologische untersuchung von Cuscuta monogyna Vahl und Cuscuta epithymum L. Planta Arch.Wiss. Bot. 14: 94-95. illus. Jl.27,1931. no.1.

Gabrielson, E.K.
Untersuchungen über die respirationsintensität der gewächshauspflanzen. Planta Arch. Wiss. Bot. 14: 217-224. Jl.27, 1931. no.1.

Hirmer, M.
Zur kenntnis der schraubenstellungen im pflanzenreich. Planta Arch. Wiss. Bot. 14: 132-206. illus. Jl.27,1931. no.1.
Anhang: Bermerkungen zum problem der blattstellungen. Eine erwiderung an Herrn Robert von Veh. p.201-206.

Noethling, W. & Rochlin, E.
Ueber photodinese im kurzwelligen ultraviolett. Planta Arch. Wiss. Bot. 14: 112-131. illus. Jl.27, 1931. no.1.

Pirwitz, K.
Physiologische und anatomische untersuchungen an speichertracheiden und velamina. Planta Arch. Wiss. Bot. 14: 19-76. illus. Jl.27, 1931. no.1.

Seybold, A. & Füsser, K.
Weitere beitrage zur transpirationsanalyse II. Eine methode der differenzierten transpirationsbestimmung in unbewegeter luft. Planta Arch. Wiss. Bot. 14: 77-93. illus. Jl.27, 1931. no.1.

Troll, W.
Beitrage zur morphologie des gynaeceums. Planta Arch. Wiss. Bot. 14: 1-18. illus. Jl.27,1931. no.1.

Planter (Kuala Lumpur)

Photosynthesis - carbon assimilation. Planter (Kuala Lumpur) 11: 349-351. Jl.1931. no.12.

Proc. Nat. Acad. Sci.

Creighton, H.B. & McClintock, B.

A correlation of cytological and genetical crossing-over in Zea mays. Proc. Nat. Acad. Sci. 17: 492-497. Ag. 1931. no.8.

Frost, H. B.

Trisomic inheritance of doubleness, complicated by lethals, in Matthiola incana. Proc. Nat. Acad. Sci. 17: 499-509. illus. Ag.1931. no.8.

McClintock, B.

The order of the genes C, Sh an Wx in Zea mays with reference to a cytologically known point in the chromosome. Proc. Nat. Acad. Sci. 17: 285-291. illus. Ag. 1931. no.8.

Proc. Roy. Soc. Ser. B (London)

Keeble, F., Nelson, M.G. & Snow, R.

The integration of plant behaviour. IV. Geotropism and growth-substance. Proc. Roy Soc. Ser. B, 108: 537-545. illus. Ag.1, 1931. no.759.

Rep. Advis. Dept. Harper-Adams Agr. Coll. (Newport,Engl.)

Preston, N.C.

Report of the advisory mycologist April, 1930-March 1931. Rep. Advis. Dept. Harper-Adams Agr. Coll. Advis. Rep. 6: 4-8. My.1931.

Rep. & Proc.Intern. Hort. Congr. London, 1930.

Archbold, H.K.

Ripening processes in the apple. Rep. & Proc. Intern. Hort. Congr. London 1930: 374-379. [1931]

Auchter, E.C.

American experiments in propagating deciduous fruit trees by stem and root cuttings. Rep. & Proc. Intern. Hort. Congr. London 1930: 287-296. [1931]

Calvino, E.M.

Seed germination in roses. Rep. & Proc. Intern. Hort. Congr. London 1930: 150-153. [1931]

Rep. & Proc. Intern. Hort. Congr. London, 1930. (cont.)

Crane, M.B. & Lawrence, W.J.C.
Studies in sterility. Rep. & Proc. Intern. Hort. Congr. London 1930: 100-116. illus. [1931]

Denny, F. E.
The excitation of buds under external stimulus. Rep. & Proc. Intern. Hort. Congr. London 1930: 77-82. [1931]

Faes, H.
La multiplication de la vigne. Rep. & Proc. Intern. Hort. Congr. London 1930: 264-270. illus. [1931]

Filewicz, Wl.
The frost injuries of fruit trees in Poland in 1928-29, with special reference to the influence of the stock and scion upon the resistance of the apple trees against frost. Rep. & Proc. Intern. Hort. Congr. London 1930: 312-320. illus. [1931]

Hansen, N. E.
Fruit stocks where the mercury freezes. Rep. & Proc. Intern. Hort. Congr. London 1930: 307-311. [1931]

Lek, H. A. A. van der.
Anatomical structure of woody plants in relation to vegetative propagation. Rep. & Proc. Intern. Hort. Congr. London 1930: 66-76. illus. [1931]

Priestley, J. H.
Vegetative propagation from the standpoint of plant anatomy. Rep. & Proc. Intern. Hort. Congr. London 1930: 61-65. [1931]

Regel, C.
Der botanische garten der nauzeit (The botanical garden of the present day). Rep. & Proc. Intern. Hort. Congr. London 1930: 405-409. [1931]

Reid, M. E.
The influence of nutritive conditions of seeds and cuttings upon the development of roots. Rep. & Proc. Intern. Hort. Congr. London 1930: 165-169. [1931]

Rep. & Proc. Intern. Hort. Congr.London,1930 (cont.)

Salaman, R. N.
Somatic mutations in the potato. Rep. & Proc. Intern. Hort. Congr. London 1930: 117-140. illus., 1 pl.(col.) [1931]

Sansome, F. W.
Graft hybrids and induction of polyploids by Solanum. Rep. & Proc. Intern. Hort. Congr. London 1930: 92-99. [1931]

Smolák, J.
Frost injuries to the fruit trees in Czechoslovakia. Rep. & Proc. Intern. Hort. Congr. London 1930: 321-324. [1931]

Stout, A. B.
The inter-relations between vegetative propagation and seed production. Rep. & Proc. Intern. Hort. Congr. London, 1930: 187-196. [1931]

Tschermak, E. von
Ueber xenien bei leguminosen. Rep. & Proc. Intern. Hort. Congr. London 1930: 340-347. [1931]

Vavilov, N. I.
Wild progenitors of the fruit trees of Turkistan and the Caucasus and the problem of the origin of fruit trees. Rep. & Proc. Intern. Hort. Congr. London 1930: 271-286. 2 maps. [1931]

Webber, H. J. & Barrett, J. T.
Root-stock influence in citrus. Rep. & Proc. Intern. Hort. Congr. London 1930: 358-373. illus. [1931]

Wellington, R.
Present status of fruit pollination studies in the United States and Canada. Rep. & Proc. Intern. Hort. Congr. London 1930: 297-304. [1931]

Zimmermann, P. W.
Oxygen requirements for root growth of cuttings in water. Rep. & Proc. Intern. Hort. Congr. London 1930: 170-186. illus. [1931]

Rep. Mass. Fruit Grow. Assoc.

Boyd, O. C.
Apple scab and some new slants on its control. Rep. Mass. Fruit Grow. Assoc. 37: 58-63. 1931.

Boyd, O. C.
Summary of the fruit disease situation in Massachusetts in 1930. Rep. Mass. Fruit Grow. Assoc. 37: 136-142. 1931.

Roberts, O. C. of Bourne, A. I.
A test of certain spray materials. Rep. Mass. Fruit Grow. Assoc. 37: 64-71. 1931.
Calcium arsenate, calcium sulfide and flotation sulfur.

Rev. Gén. Bot. (Paris)

Douin, C.
La réhabilitation du Fossombronia. Rev. Gén. Bot. 43: 246-272. pl.16-18. Je.1931. no.510.

Hagene, P.
Recherches écologiques sur quelques groupements végétaux des environs de Dijon. Rev. Gén. Bot. 43: 193-245. tab. Je.1931. no.510.

Rev. Hort. Tunisie. (Tunis)

Milhau, J.
Historique du chrysanthème avec une notice necrologique sur le Capitaine Bernet, premier semeur et obtenteur de variétés du chrysanthème de l'Inde et de la Chine. (fin.) Rev. Hort. Tunisie 29: 115-119. Jl.15, 1931. no.276.

Rev.Industr. y Agr. Tucumán. (Buenos Aires) Tucuman.

Fawcett, G. L.
La putrefacción negra de la caña de azúcar. Rev.Industr. y Agr. Tucumán 21: 55-59. Mr./Ap.1931. no.3/4.

Fawcett, G. L.
La verrucosis de los "citrus". Rev. Industr. y Agr. Tucumán. 21:59-62. illus. Mr./Ap.1931. no.3/4.

Rev. Vitic. (Paris)

Moreau, L. & Vinet, E.
Sur les traitements curatifs du mildiou. Rev. Vitic. 75: 105-108. Ag.13, 1931. no.1937.

V.13, no. 17, p.30.

Rhodesia Agr. Journ. (Salisbury)

Hopkins, J. C. F.
Diplodia - an opponent of maize growing.
Rhodesia Agr. Journ. 28: 651-652. Jl. 1931. no.7.

Hopkins, J. C. F.
A list of plant diseases occurring in southern Rhodesia. Rhodesia Agr. Journ. 28: 663-669. Jl. 1931. no.7.

Science.

Baldwin, H. I. & Percival, W. E.
Polyembryony in red spruce. Science 74: 203. Ag.21, 1931. no.1912.

Bressman, E. N.
Developing new varieties of hops. Science 74: 202-203. Ag.21, 1931. no.1912.

Dissolution of the Royal botanic society. Science 74: 213-214. Ag.28, 1931. no.1913.

Professor Richard Wettstein. Science 74: 196. Ag.21, 1931. no.1912.
Notice of death.

Wieland, G. R.
Why the angiosperms are old. Science 74: 219-221. Ag.28, 1931. no. 1913.

Vinall, H. N.
Russell A. Oakley. Science 74: 195. Ag.21, 1931. no.1912.

Science News Letter.

First plant patent granted protects everblooming rose. Science News Letter 20: 132. illus. Ag.29, 1931. no.542.
Granted to H.F. Bosenberg, New Brunswick, N.J.

Pink-fleshed lemon developed in California. Science News Letter 20: 132. Ag.29, 1931. no.542.

Scient. Agr. (Ottawa)

Newton, W. & Hastings, R. J.
Botrytis tulipae (Lib.) Lind. Sci. Agr. 11: 820-824. Ag.1931. no.12.

K. Svenska Vetensk. Akad. Handl. (Stockholm)

Florin, R.

Untersuchungen zur stammesgeschichte der Coniferales und Cordaitales. K. Svenska Vetensk. Akad. Handl. s.3, v.10, 588 p. illus., 58 pl. 1931. no.1.

Torreya.

Clark, F. R.

Extension of range of downy poplar. Torreya 31: 110. Jl./Ag.1931. no.4.

Dodge, B. O.

A further study of the morphology and life history of rose black spot fungus. Torreya 31: 126-127. Jl./Ag. 1931. no.4.

Harper, R. M.

"Frost flowers" in Florida. Torreya 31: 112-113. Jl./Ag. 1931. no.4.

See also "Additional notes" by A.H. Graves, p.113-114.

Humphrey, R. R.

Some notes on vegetational change. Torreya 31: 101-109. Jl./Ag.1931. no.4.

Study of Maryland vegetation.

Jennison, H. M.

Further anent "frost flowers". An explanation of frost crystals on dried plant stems. Torreya 31: 111-112. Jl./Ag.1931. no.4.

Trop. Agr. (Ceylon) (Peradeniya)

Bertus, L. S.

Spraying against canker of citrus. Trop. Agr. (Ceylon) 76: 337-339. Je. 1931. no.6.

Die Umschau (Frankfurt)

Peters, H.

Reizleitung in pflanzen. Die Umschau 35: 632-634. illus. Ag.8, 1931. no.32.

U.S. Dept. Agr. Misc. Publ.

Dayton, W. A.

Important western browse plants. U.S. Dept. Agr. Misc. Publ. 101. 213 p. illus., 6 pl. on 12. Jl. 1931.

U.S. Dept. Agr. Plant Dis. Rep.

Steiner, G.

Tylenchus pratensis De Man. on tobacco, tomato and strawberry. U.S. Dept. Agr. Plant Dis. Rep. 15: 106-107. Ag.15, 1931. no.10.

U.S. Dept. Agr. Techn. Bull.

Fivaz, A. E.

Longevity and germination of seeds of Ribes, particularly R. rotundifolium, under laboratory and natural conditions. U.S. Dept. Agr. Techn. Bull. 261. 40 p. illus., 5 pl. on 3. Ag.1931.

Marshall, R. P.

The relation of season of wounding and shellacking to callus formation in tree wounds. U.S. Dept. Agr. Techn. Bull. 246. 28 p. illus. Je.1931.

Verh. Zool.-Bot. Ges. Wien.

Gilli, A.

Revision einiger Rubus-formen der umgebung Wiens. Verh. Zool.-Bot. Ges. Wien 80: 67-69. D.31, 1930. no.1/2.

Kretschmer, L.

Die pflanzengesellchaften auf serpentin im Gurhofgraben bei Melk. Verh. Zool.-Bot. Ges. Wien 80: 163-208. pl.i-iii, 2 maps. My.1931. no.3/4.

Zeitschr. Anal. Chem.

Terényi, A. & Páskuji, J.

Einfache und schnelle analytische methoden zur bestimmung des wirkungssubstanzgehalts von pflanzenschutzmitteln. VI. Die titrimetrische bestimmung des arsens von pflanzenschutzmitteln. Zeitschr. Anal. Chem. 84: 416-441. illus. 1931. no.11/12.

Zeitschr. Indukt. Abstamm. u. Vererbungsl. (Leipzig)

Laibach, F.
Ueber störungen in den physiologischen beziehungen zwischen mutter und embryo bei bastardierung. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 102-125. 1931. no.1.
Linum austriacum x L. perenne.

Noack, K. L.
Ueber Hypericum-kreuzungen I. Die panaschüre der bastarde zwischen Hypericum acutum Moench und Hypericum montanum L. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 77-101. illus. 1931. no.1.

Exper. Stat. Publ.

Watts, V. M.
Some factors which influence growth and fruiting of the tomato. Arkansas Agr. Exp. Stat. Bull. 267. 47 p. illus. Je.1931(Rec'd Ag.)

Tucker, C. M.
Taxonomy of the genus Phytophthora de Bary. Missouri Agr. Exp. Stat. Res. Bull. 153. 208 p. illus. Je.1931(Rec'd Ag.)

McClintock, J.A.
Horticulture. Ann. Rep. Agr. Exp. Stat. Tennessee 43(1930): 38-41. 1931.
Fire blight & root knot included.

Scherbakoff, C. D.
Plant pathology. Ann. Rep. Agr. Exp. Stat. Tenn. 43(1930): 41-44. 1931.

New Books.

Amsterdam, K. akademie van wtenschappen - Centraalbureau voor schimmelcultures, Baarn.
List of cultures 1931.

Johnson, P. O.
Curricular problems in science at the college level. Minneapolis, University of Minnesota press, 1930.
"This study has centered around an evaluation of the function of the course in General botany in preparing students for the pursual of sequent courses in the College of agriculture and forestry.

New books. (cont.)

Kozo-Polianski, B. M.
Xerotherme relikten am flusse Tichaja Ssosna (Südrussland). In Karsten, G. Vegetationsbilder r.22, h.2. pl.7-12. 1931.

Lemée, A.
Dictionnaire decsriptif et synonymique des genres de plantes phanerogames. v.3. Brest, 1931.

Stapf, O.
Index londinensis to illustrations of flowerings plants, ferns and fern allies (Iconum botanicarum index londinensis) v.6 (Saponaria to Zymum). Oxford, Clarendon press, 1931.

Willis, J. C.
A dictionary of the flowering plants and ferns. 6th ed., rev. Cambridge, University press, 1931.

Translations filed in Library of Bur. of Plant Industry.

Fruwirth, C.
Die genetik der kartoffel (The genetics of the potato). Bibliographia genetica 1: 315-362. 1925.
Transl. begins with p. 320.

Stehlik, V.
Ureachen der abnormalen verzweigung der rübenwurzel (Causes of abnormal branching in beet roots.) Zeitschr. Zuckerind. Cechoslovak. Rep. 55: 231-241. 1931.

Zattler, F.
Ueber die einflüsse von temperatur und luftfeuchtigkeit und keimung und fruktifikation von Pseudoperonospora humuli und auf das zustandekommen der infektion des hopfens (On the influence exerted by temperature and atmospheric humidity on the germination and fructification of Pseudoperonospora humuli and on the process of infection of the hop). Phytopath. Zeitschr. 3:281-302. 1931.

Filed out of place.

Gard. Chron. (London)
The genus Codonopsis. Gard. Chron. III, 90: 112. illus. Ag.8, 1931. no.2328.

Filed out of place.
Gard. Chron. (cont.)

Small, J.
Revelations of a pocket-lens (cont.) Gard. Chron. III, 90: 111. Ag.8, 1931. no.2328.

Stearn, W. T.
The hostas of funkias. A revision of the plantain lilies. (cont.) Gard. Chron. III, 90: 110. illus. Ag. 8, 1931. no.2328.

Non-current indexing.

Bull. Dept. Agr. Bombay (Poona)

Gandhi, S. R.
Grape culture in western India. Bull. Dept. Agr. Bombay 156. of 1928. 61 p. illus., 8 pl. 1930.

Bull. Dept. Agr. So. Africa.

Gill, G. A.
Plant diseases of the vegetable garden. In The home vegetable garden in the Karroo. Bull. Dept. Agr.So. Africa 84: 21-29. 1930

Bull. Res. Dept. United Fruit Co.

Cooper, G. P.
Laboratory and field studies of the pollens from some varieties of Musa. Bull. Res. Dept. United Fruit Co. no.23. 33 p. xx pl. My.1930.
Mimeographed.

Stratton, F. C. & Loeseck, H. von.
A chemical study of different varieties of bananas during ripening. Bull. Res. Dept. United Fruit Co. no.32. 27 p. 1 pl., 2 tab. N.1930.

Bull. Soc. Linn. Normandie.

Poisson, R.
A propos de l'insertion superficielle de certaines Laboulbéniales sur leurs hôtes et sur la présence en Normandie de Laboulbenia fasciculata Peyritch (- brachiata Thaxter) parasite de Leistus fulvibarbis Dej. (Coléopt. Carabidae). Bull. Soc. Linn. Normandie VIII, 2: 65-68. 1930.

Non-Current indexing. (cont.)

Canada Dept. Agr. Pamphl.
Berkeley, G. H.
Diseases of plums and their control. Canada Dept. Agr. Pamphl. n.s., 119. 12 p. illus. 1930.
Studies in fruit diseases. II.

Groh, H.
Grande Prairie weeds, a provisional review. Canada Dept. Agr. Pamphl. n.s., no.117. 12 p. 1930.

Circ. Estac. Exp. Agr. Tucumán.
Fawcett, G. L.
Fórmulas y manera de preparar algunos de los honguicidas de uso común. Circ. Estac. Exp. Agr. Tucumán. 24. 5 p. 1930.

Doświacdczaln. Roln. (Exper. Agr.) (Warszawa)
Świętochowski, B. & Pietraszewska, J.
O występowaniu bakterjozy w Małopolsce Wschodniej w latach 1928 i 1929 (Vom auftreten der bakteriose (wildfire) in Małopolska Wschodnia im jahre 1928 und 1929). Doswiadczaln. Roln. (Exper. Agr.) 6: 27-42. illus. (maps) 1930. no.4.
Polish with German summary.

Farming South Africa.
Doidge, E. M. & Plank, J. E. van der
Concentric ring blotch of citrus. Farming South Africa 4: 577-579. illus. F.1930.
Chiefly a disease of nursery stock and young trees. Two bacterial organisms constantly associated with the disease but the part they play is obscure.

Flor. Exch.
True, R. H.
A convenient method for detecting illuminating gas in the ground. Flor. Exch. 73(16): 13. Ap.19, 1930.

Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard.Bot. Univ. Beograd) (Belgrad)
Černjavski, P.
Fossile koniferen in pliozänen mergelablagerungen bei Kačanik in Südserbien. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull.Inst. & Jard. Bot. Univ. Beograd) 1: 247-249. illus. 1930. no.3.

Non-Current indexing.(cont.)

Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd.) (cont.)

Černjavski, P.
Ueber die flora einiger tuffablagerungen in Südserbien. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd) 1: 250-259. illus. 1930. no.3.

Košanin, N.
Die bewegungen der blüten- und fruchtstiele bei der gattung Cyclamen. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd) 1: 260-286. pl.ix. 1930. no.3.
This article was prepared for the "Pfeffer-festschrift", but was delayed on account of the war; it appeared in Serbian in 1921, in v.95 of the "Glas" of the Serbian academy of sciences. It is slightly abridged in this German version.

Košanin, N.
Sambucus ebullus L. var. deborensis n.var. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd) 1: 241-246. illus. 1930. no.3.

Košanin, N.
Ueber blattdimorphismus bei Juniperus foetidissima Willd. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull.Inst. & Jard. Bot. Univ. Beograd) 1: 233-240. illus. 1930. no.3.

Malý, K.
Satureia-arten Südserbiens. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull.Inst. & Jard. Bot. Univ. Beograd) 1: 229-232. 1930. no.3.

Murbeck, S.
Die in den sammlungen der universität zu Beograd enthaltenen jugoslavischen Verbascum-formen. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd) 1: 215-228. illus., pl. viii. 1930. no.3.
V. macedonicum, n.sp.

Praeger, R. L.
Two new semperviva from Macedonia. Glasnik Bot. Zavoda i Bashte Univ. Beogradu (Bull. Inst. & Jard. Bot. Univ. Beograd) 1: 209-214. illus. 1930. no.3.
S. košaninii, S. macedonicum.

Non-Current indexing. (cont.)

Jahrb. Oberösterr. Musealver. (Linz)
Steinbach, H.
Die vegetationsverhältnisse des Irrseebeckens. Jahrb. Oberösterr. Musealver. 83: 247-338. 1930.

Jahresh. Ver. Vaterl. Naturk. Württemb. (Stuttgart)
Eberhardt, G., Gackstatter, F., Haas, H. & Kreh, W.
Beiträge zur kenntnis der verbreitung der löcherpilze in der umgebung von Stuttgart. Jahresh. Ver. Vaterl. Naturk. Württemb. 86: 44-64. 1930.

Just. Liebigs Ann. Chem. (Berlin)
Zechmeister, L. & Cholnoky, L. v.
Ueber den farbstoff der bocksdorn- beere und über das vorkommen von chemisch gebundenen carotinoiden in der natur. Just. Liebigs Ann. Chem. 481: 42-56. Je.21, 1930. no.1.

Lumber Trade Journ.
Lindgren, R. M.
Preliminary experiments on control of sap-stain and mold in southern pine and sap gum by chemical treatment. Lumber Trade Journ. 67(9): 25-26. illus. My.1, 1930.

Mem. & Proc. Manchester Lit. & Phil. Soc.
Bishop, M. K.
On the occurrence of filamentous embryos in the Bryales. Mem. & Proc. Manchester Lit. & Phil. Soc. 74(1929/30): 96-111. illus. 1930.

Manton, I.
A note on the cytology of the genus Matthiola. Mem. & Proc. Manchester Lit. & Phil. Soc. 74(1929/30): 53-55. illus. 1930.

Weiss, F. E.
Dr. James Cosmo Melville. Mem. & Proc. Manchester Lit. & Phil. Soc. 74(1929/30): ii-iv. 1930.
Notice of death.

Weiss, F. E.
Note on the Crataegomespili of Saujon. Mem. & Proc. Manchester Lit. & Phil. Soc. 74(1929/30): 89-95. illus. 1930.

Non-Current indexing. (cont.)

Mem. & Proc. Manchester Lit. & Phil. Soc.(cont.)

Weiss, F. E.
The probable Stigmarian axis of Bothrodendron mundum. Mem. & Proc. Manchester Lit. & Phil. Soc. 74(1929/30): 83-87. 1 pl. 1930.

Wilkinson, M.
Note on a wounded Lepidodendroid axis. Mem. & Proc. Manchester Lit. & Phil. Soc. 74(1929/30): 75-82. pl. i-ii. 1930.

Northwest. Science.

Kienholz, J. & Smith, W.K.
Tests on gas grain treater for the control of smut. Northwest Science 4: 101-102. D.1930. no.4.

Nyt Mag.Naturvidensk.(Oslo)

Erichsen, C. F. E.
Neue skandinavische flechten. Nyt.Mag. Naturvidensk. 68: 159-165. 1930.
Arthopyrenia orustensis, Bacidia lyngeana, Verrucaria zschackeana.

Haugsja, P. K.
Ueber den einfluss der stadt Oslo auf die flechtenvegetation der bäume. Nyt Mag. Naturvidensk. 68: 1-116. x pl. on 6. 1930.

Holmboe, J.
Spredte bidrag til Norges flora, I. Nyt Mag. Naturvidensk. 68: 119-151. 1930.

Kolle, F.
Beiträge zur kenntnis der kaffeeblätter. Nyt Mag. Naturvidensk. 68: 153-158. illus. 1930.

Røskeland, A.
Stachys officinalis Trevis. syn. Betonica officinalis L. funnet viltvoksende i Norge. Nyt Mag. Naturvidensk. 68: 117-118. 1930.

Tolmatchew, A.
Ueber die systematische stellung von Hesperis pallasii. Nyt Mag. Naturvidensk. 68: 167-170. illus. 1930.
Erysimum pallasii.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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Vol. 13, no. 18. Aug.31-Sep. 12, 1931.

Acta Bot. Fenn. (Helsingfors)

Brenner, W.
Beiträge zur edaphischen ökologie der vegetation Finnlands. I. Kalkbegünstigte moore, wiesen und wiesenwälder. Acta Bot. Fenn. no.7. 97 p. illus. (map) 1930(Rec'd S.1931)

Collander, R.
Permeabilitätsstudien an Chara ceratophylla. I. Die normale zusammensetzung des zellsaftes. Acta Bot. Fenn. no.6. 20 p. illus. 1930(Rec'd S.1931)

Acta Bot. Inst. Bot. Univ. Zagreb.

Ercogović, A.
Sur la tolérance des cyanophycées vis-à-vis des variations brusques de la salinité de l'eau de mer. Acta Bot. Inst. Bot. Univ. Zagreb 5: 48-56. 1930 (Rec'd Sep.1931)

Horvatič, S.
Soziologische einheiten der niederungswiesen in Kroatien und Slavonian. Acta Bot. Inst. Bot. Univ. Zagreb 5: 57-118. 4 fold. tab. 1930(Rec'd S.1931)

Klas, Z.
Wachstumsstudien an bohnenfruchten. Acta Bot. Inst. Bot. Univ. Zagreb 5: 119-143. 3 fold.tab. 1930(Rec'd Sep.1931)

Kušan, F.
Neue beiträge zur flechtenflora des kroatischen und dalmatinischen küstenlandes. Acta Bot. Inst. Bot. Univ. Zagreb 5: 18-47. 1930(Rec'd Sep.1931)

Vouk, V.
Ljudevitu Rossiu ... (Ludwig Rossi, anlässlich seines achtzigsten geburtstages). Acta Bot. Inst. Bot. Univ. Zagreb 5: 1-6. port. 1930(Rec'd S.1931)

Amer. Bot. (Indianapolis, Ind.)

Benke, H. C.
Rufescence in plants. Amer. Bot. 37: 100-103. Jl.1931. no.3.

Clute, W. N.
The meaning of plant names. XLVII. Senecios and others. Amer. Bot. 37: 105-109. Jl.1931. no.3.

Clute, W. N.
Swamp and dune (cont.) Amer. Bot. v.37, suppl. p.33-48. Jl.1931. no.3.

Algaroba leaflets. Amer. Bot. 37: 125-126. Jl.1931. no.3.
Hymenaea courbaril.

Crown imperial. Amer. Bot. 37: 126-127. Jl. 1931. no.3.
Fritillaria imperialis.

Dwarf larkspur. Amer. Bot. 37: 118-119. Jl. 1931. no.3.
Delphinium tricorne.

Hawthorn evolution. Amer. Bot. 37: 112-113. Jl. 1931. no.3.
Comments on investigations of Prof. Marie Victorin.

Hoary pea as an insecticide. Amer. Bot. 37: 128. Jl. 1931. no.3.
Tephrosia virginica.

The monocot calyx. Amer. Bot. 37: 118. Jl. 1931. no.3.

Obdiphostemonous flowers. Amer. Bot. 37: 127-128. Jl.1931. no.3.
Condition in flowers where the stamens stand opposite the petals.

Plants and water. Amer. Bot. 37: 113-117. Jl. 1931. no.3.

Amer. Forests (Washington)

Mocine, R. F.
Fremont's tree of the desert. Amer. Forests 37: 534-535, 573-574. illus. S.1931. no.9.
Populus fremontii.

Anal. Inst. Biol. Univ. Nac. Mexico.

Bravo, H.

Neomammillarias nuevas de Mexico. Anal. Inst. Biol. Univ. Nac. Mexico 2: 193-196. illus. 1931. no.3.

N. ortizrubiana, N. mendeliana.

Ann. Appl. Biol. (London)

Brierley, W. B.

Biological races in fungi and their significance in evolution. Ann. Appl. Biol. 18:420-434. Ag. 1931. no.3.

Proceedings of the Association of economic biologists, F.20, 1931.

Caldwell, J.

The physiology of virus diseases in plants. II. Further studies on the movement of mosaic in the tomato plant. Ann. Appl. Biol. 18: 279-298. illus., pl. xvii-xx. Ag. 1931. no.3.

Cheal, W. F.

Experiments on potato sickness. Ann. Appl. Biol. 18: 401-403. pl.xxiv. Ag.1931. no.3.

Fenton, E. W.

A botanical study of pasture formation. Ann. Appl. Biol. 18: 334-351. diagrs. Ag.1931. no.3.

Jones, A. P.

The histogeny of potato scab. Ann. Appl. Biol. 18: 313-333. illus., pl.xxii-xxiii. Ag. 1931. no.3.

Small, T.

Experiments on the control of tomato leaf mould (Cladosporium fulvum) by fungicides and fumigants. Ann. Appl. Biol. 18: 305-312. Ag.1931. no.3.

Turrill, W. B.

Biological races in seed-bearing plants and their significance in evolution. Ann. Appl. Biol. 18: 442-452. Ag. 1931. no.3.

Proceedings of the Association of economic biologists, F.20, 1931.

Whitehead, T.

On the transmission of potato leaf roll by aphides. Ann. Appl. Biol. 18: 299-304. pl.xxi. Ag. 1931. no.3.

Arch. Protistenk. (Jena)

Gerber, K.

Die epiphytische verbreitung von "flechten-parasiten". Arch. Protistenk. 74: 471-479. illus. 1931. no.3.

Pseudophacidium crassum, Karschia laeta, Phoma arachnoidea, Libertiella obscurior, n.spp.

Pascher, A. & Petrová, J.

Ueber porenapparate und bewegung bei einer neuen bangiale (Chroothece mobilis). Arch. Protistenk. 74: 490-522. illus. pl.17-18. 1931. no.3.

Beitr. Biol. Pflanz. Cohn. (Breslau)

Goette, W.

Untersuchungen über die beeinflussung des anatomischen baues einiger liliaceen durch standortsfaktoren und experimentalle eingriffe (blausäure-begasung). Beitr. Biol. Pflanz. Cohn. 19: 35-66. pl.2. 1931. no.1.

Experiments with Convallaria majalis, Aspidristra elatior and Majanthemum bifolium (mainly with the first named)

Heinricher, E.

Ueber das aufsteigen des Cytinus hypocistis im stamme der wirtspflanze Cistus. Beitr. Biol. Pflanz. Cohn 19: 25-28. illus. 1931. no.1.

Sagatz, K.

Vergleichende untersuchung der assimilationsleistungen bei süsswasseralgen und Vaucheria aus einer solquelle in abgestuften salzlösungen. Beitr. Biol. Pflanz. Cohn 19: 67-139. 1931. no.1.

Touton, K.

Hautreizende pflanzen besonderer berücksichtigung der gewerblichen. Beitr. Biol. Pflanz. Cohn 19: 1-24. 1931. no.1.

Winkler, H.

Die monokotylen sind monokotyl. Beitr. Biol. Pflanz. Cohn 19: 29-34. pl. 1. 1931. no.1.

Bergcultures (Batavia, Java)
Jacob, J. C. s'
De resultaten van de meeldauw-enquête in Besoeki in 1930. Bergcultures 5: 340-344. Mr.28, 1931. no.13.
On Hevea.

Biochem. Zeitschr. (Berlin)
Bleyer, B. & Diemair, W.
Zur kenntnis der pflanzlichen phosphatide und lecithine I-II. Biochem. Zeitschr. 235: 243-258; 238: 197-211. Je.19, Ag.1, 1931. no.4/6, 1/3.
I. Ueber ein phosphatid der mohrrübe. II. Ueber einen phosphorhaltigen, dialysierbaren stoff der mohrrübe.

Biol. Zentralbl. (Leipzig)
Fischer, M.
Zur verteilung des gerbstoffes in der epidermis. Biol. Zentralbl. 51: 424-437. illus. 1931. no.8.

Ubisch, G. v. & Zachmann, E.
Nachprüfung von boses wachstumsmessungen mit einem neuen hochempfindlichen auxanometer (torsion-sauxanometer). Biol. Zentralb. 51: 447-458. illus. 1931. no.8.

Bol. Agr. y Cam. Guatemala.
Popenoe, W.
El problema de la variedad en la horticultura tropical. Bol. Agr. y Cam. Guatemala 10:211-220. illus. Je.1931. no.6.

Bol. Mus. Nac. Rio de Janeiro.
Brade, A. C.
A saporema, Polyporus sapurema Möll. Bol. Mus. Nac. Rio de Janeiro 6: 303-305. pl. D. 1930(Rec'd Sep.1931) no.4.

Puttemans, A.
Uma ferrugem nova em planta australiana cultivada no Brasil. Bol. Mus. Nac. Rio de Janeiro 6: 311-314. illus. D.1930(Rec'd Sep.1931) no.4.
Puccinia camargoi n.sp. on Melaleuca leucodendron.

Sampaio, A. J. de.
A nomenclatura botanica e o methodo de typos. Bol. Mus. Nac. Rio de Janeiro 6: 149-188. S.1930 (Rec'd Sep.1931) no.3.
English summary: p.187-188.

Bol. Mus. Nac. Rio de Janeiro. (cont.)
Sampaio, A. J. de.
Phytogeographia do Brasil. Bol. Mus. Nac. Rio de Janeiro 6: 271-299. pl. (map) D. 1930(Rec'd Sep.1931) no.4.

Bull. Dept. Agr. Bombay (Poona)
Uppal, B. N., Cheema, G. S. & Kamat, M. N.
Powdery mildew of the grape and its control in Bombay. Bull. Dept. Agr. Bombay no.163(1930). 30 p. 9 pl. on 5. 1931. no.9.

Bull. Imp. Sericult. Exp. Stat. Tokyo.
Yamauchi, T.
Diaporthe associated with the mulberry blight "kangare". Bull. Imp. Sericult. Exp. Stat. Tokyo 8: 1-34. pl.i-ix. (1 col.) Ag.1930(Rec'd Sep.1931) no.1.
Japanese with English summary.

Yoshida, T.
Chemical studies on the ether-soluble constituents of mulberry leaves. pt. I. Bull. Imp. Sericult. Exp. Stat. Tokyo 8: 35-42. pl. x. Ag. 1930(Rec'd Sep.1931) no.1.
I. Phytosterol.

Bull. Mens. Soc. Nat. Hort. France (Paris)
Barbieri, N. A.
Absence complete d'azote et de cendres dans la chlorophylle. Bull. Mens. Soc. Nat. Hort. France V, 4: 345-352. Jl. 1931.

Emery, H.
Etude sur les tumeurs de l'orme. Bull. Mens. Soc. Nat. Hort. France V, 4: 352-353. Jl. 1931.

Bull. Misc. Inform. Kew. (London)
Collenette, C. L.
North-eastern British Somaliland. Bull. Misc. Inform. Kew 1931: 401-414. pl. viii-ix, map. no.8.
Sideroxylon buxifolium, Bridelia somalensis, Merendera longifolia n.spp.

Hutchinson, J.
Dr. Rudolph Marloth. Bull. Misc. Inform. Kew 1931: 427-428. no.8.

Bull. Misc. Inform Kew. (cont.)

Metcalfe, C. R.
The wood structure of Fokienia hodginsii and certain related Coniferae. Bull. Misc. Inform. Kew 1931: 420-424. illus. no.8.

Prain, D. & Burkill, I. H.
Dioscoreae novae asiaticae. Bull. Misc. Inform. Kew 1931: 425-426. no.8.
D. chingii, D. craibiana, D. esquirolii, D. simulans.

Spencer Moore. Bull. Misc. Inform. Kew 1931: 428. no.8.

Bull. Soc. Mycol. France. (Paris)

Bataille, F.
Une lepiote nouvelle: Lepiota cretini. Bull. Soc. Mycol. France 47: 108. Jl.31, 1931. no.1.

Bataille, F.
Réactions chimiques sur quelques champignons. Bull. Soc. Mycol. France 47: 106-107. Jl.31, 1931. no.1.
I. Réactions chimiques sur quelques cortinaires. II. Réactions chimiques sur différentes clavaires. III. Réaction du formol sur les Russula nigricans, densifolia et adusta.

Brebinaud, P.
Revision de quelques Hyménomycètes. Bull. Soc. Mycol. France 47: 89-105. Jl.31, 1931. no.1.
Various agarics, Lycoperdon hirtum and L. marginatum, a note on the dimension of the spores.

Josserand, M.
Note sur un empoisonnement grave causé par une lépiote du groupe helveola Bull. Soc. Mycol. France 47: 52-71. pl. iii. Jl.31, 1931. no.1.

Malençon, G.
Considérations sur les spores des russules et des lactaires. Bull. Soc. Mycol. France 47: 72-86. pl.iv. Jl.31, 1931. no.1.

Nardi, R.
Sur la constitution chimique de la membrane cellulaire des champignons. Bull. Soc. Mycol. France 47: 113-117. Jl.31, 1931. no.1.

Bull. Soc. Mycol. France (cont.)

Nicolas, G.
Sur la présence de Geaster fornicatus (Huds.) Fries dans la Haute-Garonne. Bull. Soc. Mycol. France 47: 112. Jl.31, 1931. no.1.

Sauger, M.
Menues observations mycologiques. Bull. Soc. Mycol. France 47: 109-111. Jl.31, 1931. no.1.
I. Sur des circonstances favorisant la fructification du mycélium de Coprinus comatus (Fr. ex Muller). II. Sur la séparabilité des lamelles chez divers agarics. III. Sur la figuration de Mitrophora hybrida (Sow.)

Société mycologique de France.
Atlas de planches coloriées.
In its Bull. v. 47 pl. xlii-xliii. Jl. 1931. no.1.

Vandendries, R.
Les polarités sexuelles de Coprinus tergiversans Fr. Bull. Soc. Mycol. France 47: 36-43. Jl.31, 1931. no.1.

Zvara, J.
Russual atropurpurea Kromb. et ses variétés. Bull. Soc. Mycol. France 47: 44-51. pl. i-ii. Jl.31, 1931. no.1.

Bull. Soc. Vaud. Sci. Nat. (Lausanne)

Aubert, S.
Additions et observations relatives à la flore de la Vallée de Joux. Bull. Soc. Vaud Sci. Nat. 57: 237-244. F. 1931. no.226.

Pillichody, A.
La Primula farinosa à la Vallée de Joux. Bull. Soc. Vaud. Sci. Nat. 57: 245-247. F.28, 1931. no.226.

Wilczek, E.
La dissémination des Galinsoga. Bull. Soc. Vaud. Sci. Nat. 57: 253-254. F.28, 1931. no.226.

Wilczek, E.
A propos d'un cas d'adesmie de la corolle du "Campanula rotundifolia L." Bull. Soc. Vaud. Sci. Nat. 57: 255-263. F.28, 1931. no.226.

Bull. Torr. Club.

Ma, R. M.

Starch deposition in the sporogenous cells of certain mosses. Bull. Torr. Club 57: 525-532. pl.31. N. 1930(Rec'd S.1931) no.8.

Osterhout, G. E.

New plants from Colorado. Bull. Torr. Club 57: 559-560. N.1930(Rec'd Sep.1931) no.8.

Juncus exilis, Chenopodium deltaphyllum, Pentstemon pallescens, Chrysopsis elata, Cryptantha exigua n.spp.

Porterfield, W. M. jr.

Daily periodicity of growth in the bamboo, Phyllostachys nigra, with special reference to atmospheric conditions of temperature and moisture. Bull. Torr. Club 57: 553-557. N. 1930(Rec'd Sep. 1931) no.8.

Canad. Field Nat. (Ottawa)

Lewis, H. F.

An annotated list of vascular plants collected on the north shore of the Gulf of St. Lawrence, 1927-1930. Canad. Field Nat. 45: 129-135. Sept. 1931. no.6.

Odell, W. S.

New records of mushrooms and other fleshy fungi of the Ottawa district. Canad. Field Nat. 45: 139-141. S.1931. no.6.

O Campo (Rio de Janeiro)

Novaes, J. C.

Citrus blast. Uma forma de citrus necrosis. A bexiga negra que murcha a laranja. O Campo 11: 55. illus. Je.1931. no.6.

Canad. Journ. Res. (Ottawa)

Dowding, E. S.

Wallrothiella arceuthobii, a parasite of the jack-pine mistletoe. Canad. Journ. Res. 5: 219-230. illus., ii pl. Ag. 1931. no.2.

Canad. Journ. Res. (cont.)

Harrington, J. B.
The effect of temperature on the expression of factors governing rust reaction in a cross between two varieties of Triticum vulgare. Canad. Journ. Res. 5: 200-207. Ag.1931. no.2.

Harrington, J. B.
The relationship between endosperm development and morphologic characters in the F_2 generation of a T.diococcum x T. vulgare cross. Canad. Journ. Res. 5: 208-218. 1 pl. Ag.1931. no.2.

China Journ. (Shanghai)

Skvortzow, B. W.
Notes on trees and shrubs of northern Manchuria. 5. Genus Syringa L. China Journ. 15: 98-100. 4 pl. Ag. 1931. no.2.

Compt. Rend. Acad. Sci. Paris.

Blaringhem, L.
Sur la production expérimentale des blés epeautres (Triticum spleta L.) à partir d'une plante sauvage (Aegilops ventricosa Tausch.) Compt. Rend. Acad. Sci. Paris 193: 330-333. Ag.17, 1931. no. 7.

Contr. Gray Herb. (Boston)

Bacigalupi, R.
Taxonomic studies in Cuphea. Contr. Gray Herb. 95: 3-26. pl. i-v. Ag.24, 1931.

Johnston, I. M.
New spermatophytes from Mexico and Argentina Contr. Gray Herb. 95: 53-55. Ag.24, 1931.
Struthanthus hunnewellii, Hysterionica caurina n.spp.

Johnston, I. M.
Vascular flora of the Guano Islands of Peru. Contr. Gray Herb. 95: 26-35. pl.vi-vii. Ag.24, 1931.
Periloba insularis, Solanum murphyi, Polyachyrus nesites, n.spp.

Robinson, B. L.
Records preliminary to a general treatment of the Eupatorieae IX. Contr. Gray Herb. 96: 3-27. Ag.15, 1931.

Contr. Gray Herb. (cont.)

Robinson, B. L.
The stevias of Colombia. Contr. Gray Herb. 96: 28-36. Ag.15, 1931.

Robinson, B. L.
The stevias of Ecuador. Contr. Gray Herb. 96: 43-49. Ag.15, 1931.

Robinson, B. L.
The stevias of Venezuela. Contr. Gray Herb. 96: 37-43. Ag.15, 1931.

Smith, L. B.
Studies on the Bromeliaceae. II. Contr. Gray Herb. 95: 40-49. pl. ix-xi. Ag.24, 1931.

Weatherby, C. A.
The group of Asplenium fragile in South America. Contr. Gray Herb. 95: 49-52. Ag.24, 1931.
A. gilliesii, A. lorentzii, A. fragile, A. fragile var. lomense.

Weatherby, C. A.
New American species of Trichomanes. Contr. Gray Herb. 95: 36-40. pl.viii. Ag.24, 1931.
T. daguense, T.killipii, T. crassipilis, T.curranii.

Dansk Bot. Ark. (København)

Nielson, E. S.
Einige planktonalgen aus den warmen meeren. Dansk. Bot. Ark. v.6, no. 9. 13 p. illus. 1931. no.9.
Bacteriastrum tenue, B. elongatum, Chaetoceros pseudosymmetricus, C. malayensis, Diplosalis ostenfeldii, n.spp. Danasphaera indica, n.gen., n.sp.

Desert (Pasadena)

Saunders, C. F.
Wild poppies of the Mohave. Desert 3: 56-57. illus. S. 1931. no.5.

Deut. Landw. Presse (Berlin)

Heinisch, O.
Verschiedene distelbekämpfungs-verfahren. Deut. Landw. Presse 58: 471-472. illus. Ag.22, 1931. no.34.

Dokl. Akad. Nauk SSSR (Compt. Rend. Acad. Sci. URSS)
Prianishnikova, D. N. & Ivanova, V.
Ob obrazovanii ammiaka pri reduktsii nitratov u vysshikh rasteniĭ (Sur la formation d'ammoniaque lors de la réduction des nitrates par les plantes supérieues). Dokl. Akad. Nauk SSSR (Compt. Rend. Acad. Sci. URSS) 1931,A: 205-209. no.8.
Russian.

Empire For. Journ.
Burtt Davy, J.
Botanical notes on Empire trees. III. Empire For. Journ. 10: 106-112. 1931. no.1.

Burtt Davy, J.
The forest vegetation of south central tropical Africa. Empire For. Journ. 10: 73-85. 4 pl. on 2. 1931.
British colonies and protectorates of Northern Rhodesia and Nyasaland.

Dallimore, W.
The cypresses. Empire For. Journ. 10: 37-47. 1931. no.1.

Green, M. L.
Rules of botanical nomenclature. Empire For. Journ. 10: 54-72. 1931. no.1.

Hopkinson, A. D.
A visit to Queen Charlotte Islands. Empire For. Journ. 10: 20-36. 6 pl. on 3. 1931. no.1.

Phillips, J. F. V.
Ecology the foundation of forestry. Empire For. Journ. 10: 86-105. 1931. no.1.

Ernähr. Pflanze. (Berlin)
Blattny, C. & Vukolov, V.
Zur kenntnis histologischer grundlagen des einflusses von kali gegen lagern der gerste. Ernähr. Pflanze 27: 355-358. illus. Ag.15, 1931. no.16.

Flor. Exch. (N.Y.)
A new scented gladiolus. Flor. Exch. 78(1): 20. illus. S.5, 1931.
Color salmon pink; type, Primulinus grandiflora; perfume akin to wallflowers.

Flor. Exch. (cont.)
Plant names, standardized or approved? Flor. Exch. 78(1): 29, 36. S.5, 1931.

Fruit World Australasia (Melbourne)
Hammond, A. A.
Spraying to control orchard pests and diseases. Fruit world Australasia 32: 452-453. Ag.1, 1931. no.8.
Black spot, brown rot.

Gard. Chron. (London)
Buys, B.
Red delphiniums. Gard. Chron. III, 90: 172. Ag.29, 1931. no.2331.

Friend, H.
Horticulture in relation to commerce. XIII. - Perfumes and aromatics. Gard. Chron. III, 90: 156-157. Ag.22, 1931. no.2330.

Grove, A.
The vitality of seeds. Gard. Chron. III, 90: 174. Ag.29, 1931. no.2331.

MacGregor, D.
Chinese cabbages. Gard. Chron. III, 90: 177-178. illus. Ag.29, 1931. no.2331.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. 90: 153. illus. Ag.22, 1931. no.2330.

Wales, N.
Some dwarf berrying plants. Gard. Chron. III, 90: 173. Ag.29, 1931. no.2331.

Ward, F. K.
Some big-leafed rhododendrons of Burma and Assam. Gard. Chron. III, 90: 155-156. illus. Ag.22, 1931. no.2330.

Gard. Chron. Amer.
Baird, R. O.
Succulents. Gard. Chron. Amer. 35: 335-336, 334. illus. S.1931. no.9.

Creasey, L. B.
Dwarf Asiatic species of rhododendron. Gard. Chron. Amer. 35: 333, 349-350. S.1931. no.9.

Gard. Illus. (London)

Giuseppi, P.
Plant hunting in Serbia I -. Gard. Illus. 53: 538-539. illus. Ag.29, 1931. no.2738.

Gartenbauwiss. (Berlin)

Arnold, Z.
Weitere versuche zur frage der künstlichen frischerhaltung der schnittblumen. Gartenbauwiss. 5: 255-266. Ag.19, 1931. no..4.

Goffart, H.
Beobachtungen über pflanzenschädliche nematoden an gartenpflanzen. Gartenbauwiss. 5: 353-359. illus. Ag.19, 1931. no.4.

Gartenfl. (Berlin)

Böhme, O.
Eine ganz weisse fuchsie. Gartenfl. 80: 273. illus. Ag. 1931.

Gartenw. (Berlin)

Laubert, R.
Der schlimmste feind des tulpenanbaues. Gartenw. 35: 455-456. illus. Ag.14, 1941. no.33.
Botrytis.

Genetics.

Yarnell, S. H.
Genetic and cytological studies on Fragaria. Genetics 16: 442-454. incl. 2 pl. S.1931. no.5.

Yarnell, S. H.
A study of certain polyploid and aneuploid forms in Fragaria. Genetics 16: 454-489. illus., 1 pl. S.1931. no.5.

Indian For. (Dehra Dun)

Laurie, M. V.
Teak and its lime requirements. Indian For. 57: 377-381. pl. xviii. Aug. 1931. no.8.

Parker, R. N.
Pipanthus in the Himalayas. Indian For. 57: 381-382. Aug.1931. no.8.
In author's opinion P. leiocarpus is a synomyn of P. laburnifolius in so far as the latter is based on Thermopsis laburnifolia, the East Himalayan species of Piptanthus is still without a name.

Indian Journ. Agr. Sci. (Calcutta)

Chatterjee, G.
A note on an apparatus for catching spores from the upper air. Indian Journ. Agr. Sci. 1: 306-308. pl.xvii-xviii. Je.1931. no.3.
This note explains the mechanism of the "spore trap" which was used in hydrogen balloons for the study of rust dissemination.

Mahta, D. N. & Dave, B.B.
Rice-breeding in the Central Provinces. Indian Journ. Agr. Sci. 1: 351-371. plates. Je. 1931. no.3.

Mehta, K. C.
Annual outbreaks of rust on wheat and barley in the plains of India. Indian Journ. Agr. Sci. 1: 297-301. Je.1931. no.3.

Mehta, K. C.
The cereal-rust problem in India. Indian Journ. Agr. Sci. 1: 302-305. Je.1931. no.3.

Trought, T.
A study of causes contributing to the large variations in yields from year to year of 4F cotton in the Punjab. Indian Journ. Agr. Sci. 1: 309-350. pl.xviii. Je.1931. no.3.

Intern. Rev. Agr. (Rome)

Scotland: Plant diseases and pests. Intern. Rev. Agr. 22(M):94-95. Je.1931. no.6.
Phytophora on strawberry, P. porri n.sp. on leek, virus disease of Auratum lilies.
Reprinted in Intern. Bull. Plant Prot. 5(M).

Izv. Vses. Nauchno-Issled. Inst. Chain. Khoz. (Bull. Res. Inst. Tea Industr. U.S.S.R.) (Tiflis)

Bakhtadze, K. E.
Tsvetenie i plodonoshenie chaia v usloviiakh Chavku (The flowering and fruit bearing of the tea plant in Chakva). Izv. Vses. Nauchno-Issled. Inst. Chain. Khoz. (Bull. Res. Inst. Tea Industr. U.S.S.R.) 2: 57-88. illus. 1931.
Russian with English summary.

Jahrb. Wiss. Bot. (Leipzig)

Brauner, L. & Köckemann, A.
Ein automatisches potometer. Jahrb. Wiss. Bot. 75: 304-311. illus. 1931. no.2.

Brauner, L.
Eine neue automatische transpirationswage. Jahrb. Wiss. Bot. 75: 295-303. illus. 1931. no.2.

Mengdehl, H.
Der einfluss kolloider kieselsäure auf die salzaufnahme der pflanzen. Jahrb. Wiss. Bot. 75: 252-294. 1931. no.2.

Pisek, A. & Cartellieri, E.
Zur kenntnis des wasserhaushaltes der pflanzen. I. Sonnenpflanzen. Jahrb. Wiss. Bot. 75: 195-251. illus. 1931. no.2.

Schröder, M.
Zur frage der assimilation des luftstockstoffs durch Aspergillus niger. Jahrb. Wiss. Pot. 75: 377-398. 1931. no.2.

Weber, U.
Wachstum und krümmung einzelner zonen geotropisch gereizter gerstenkeimlinge. Jahrb. Wiss. Bot. 75: 312-376. 1931. no.2.

Journ. Agr. Prat. (Paris)

Lesourd, F.
Histoire des plantes. (cont.) Journ. Agr. Prat. n.s., 56(2): 179-180. illus. Ag.29,1931. no.35.
Dactylis glomerata, Festuca rubra.

Journ. Arnold Arb. (Cambridge, Mass.)

Chester, K. S.
Graft-blight; a disease of lilac related to the employment of certain understocks in propagation. Journ. Arnold Arb. 12: 79-148. pl.31-34. Ap. 1931. no.2.

Journ. Dept. Agr. Victoria. (Melbourne)

Grieve, B. J.
Rose diseases and their control.XII-XIII. Journ. Dept. Agr. Victoria 29: 362-365. illus. Jl.1931. no.7.
XII. Rose root rot. XIII. Rose wilt and dieback disease.

Journ. Ecol. (Cambridge, Engl.)

Adamson, R. S.
The plant communities of Table Mountain II. Life-form dominance and succession. Journ. Ecol. 19: 304-320. Ag. 1931. no.2.

Burns, W., Kulkarni, L.B. & Godbole, S. R.
Succession in xerophytic Indian grasslands. Journ. Ecol. 19: 389-391. plxxi-xxii. Ag. 1931. no.2.

Fenton, E. W.
A botonical survey of grasslands in the south and east of Scotland. Journ. Ecol. 19: 392-409. fold.tab. Ag.1931. no.2.

Fritsch, F. E.
Some aspects of the ecology of freshwater algae, (with special reference to static waters). Journ. Ecol. 19: 233-272. illus. Ag.1931. no.2.

Maximov, N. A.
The physiological significance of the xeromorphic structure of plants. Journ. Ecol. 19: 273-282. Ag. 1931. no.2.
Symposium on xeromorphy. Intern. Bot. Congr., Cambridge, 1930.

Phillips, J.
Ecological investigation in south, central and east Africa: Outline of a progressive scheme. Journ. Ecol. 19: 474-482. Ag.1931. no.2.

Rees, T. K.
Preliminary observations on the Phaeophyceae of Loug Hyne (INE). Journ. Ecol. 19: 439-448. Ag. 1931. no.2.

Schratz, E.
Zum vergleich der transpiration xeromorpher und mesomorpher pflanzen. Journ. Ecol. 19: 292-296. Ag. 1931. no.2.
Symposium on xeromorphy. Intern. Bot. Congr. Cambridge 1930.
Reprinted in part from Jahr. Wiss. Bot. v.74, 1931.

Journ. Ecol. (cont.)

Seifriz, W.

Sketches, of the vegetation of some southern provinces of Soviet Russia. I-II. Journ. Ecol. 19: 360-371, 372-382. illus. pl. xiv-xx. Ag. 1931. no.2.

I. The altitudinal distribution of plants on the Crimean mountains. II. Plant life along the Georgian military way, North Caucasus.

Small, J.

The Fenlands of Lough Neagh. Journ. Ecol. 19: 383-388. map. Ag. 1931. no.2.

Thoday, D.

The significance of reduction in the size of leaves. Journ. Ecol. 19: 297-303. Ag. 1931. no.2.

Symposium on xeromorphy. Intern. Bot. Congr. Cambridge, 1930.

Watt, A. S.

Preliminary observations on Scottish beechwoods. (cont.) Journ. Ecol. 19: 321-359. illus. Ag. 1931. no.2.

Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo.

Miyabe, K. & Kudo, Y.

Flora of Hokkaido and Saghalien. II. Monocotyledoneae, Typhaceae to Cyperaceae. Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo 26: 81-277. pl. iv. Jl.1931. no.2.

Journ. Hered. (Washington)

Brink, R. A. & Senn, P. H.

Heritable characters in maize. XL. Ragged, a dominant character, linked with Ai Ts4 and Di. Journ. Hered. 22: 155-161. illus. My. 1931. (Rec'd S.) no.5.

Collins, J. L. & Kerns, K. R.

Genetic studies of the pineapple. I. A preliminary report upon the chromosome number and meiosis in seven pineapple varieties (Annas sativus Lindl.) and in Bromelia pinguin L. Journ. Hered. 22: 139-142. illus. My.1931(Rec'd S.) no.5.

Journ. Hered. (cont.)
Darrow, G. M.
European blackberry seedlings and hybrids. Journ. Hered. 22: 143-146. illus. My.1931. (Rec'd S.) no.5.
In the Pacific northwest.

Journ. Min. Agr. Gt. Brit. (London)
Johnstone, K.
The use of peat in horticulture. Journ. Min Agr. Gt. Britain 38: 474-481. Ag.1931. no.5.

Journ. Roy. Soc. Arts (London)
Villiers-Stuart, Mrs. P.
The Indian paradise garden. Journ. Roy. Soc. Arts 79:794-806. illus. Jl.17, 1931. no.4104.

Kartoffel, Zeitschr. Kartoffelbauges. (Berlin)
Schlumberger, O.
Saatenanerkennung und pflanzenschutz im jahre 1930. Kartoffel, Zeitschr. Kartoffelbauges. 11: 160. Ag.16, 1931. no.16.

Klin. Wochenschr. (Berlin)
Küstner, H.
Hormonwirkung bei den pflanzen und hormonsteigerung durch rotes licht. Klin. Wochenschr. 10: 1585. Ag.22, 1931. no.34.

Memor. Soc. Fauna & Flora Fenn. (Helsingfors)
Cedercreutz, C.
Süsswasseralgen aus Petsamo. Memor. Soc. Fauna & Flora Fenn. 5: 140-158. illus. (map) 1929 (Rec'd Ag.1931)

Eklund, O.
Allium ursinum L., für regio aboënsis neu. Nebst einigen verbreitungsbiologischen betrachtungen. Memor. Soc. Fauna & Flora Fenn. 5: 64-68. 1929. (Rec'd Ag.1931)

Eklund, O.
Ergebnisse einer botanischen reise in den kirchspielen Houtskär und Iniö (Sudwestfinnland) im jahre 1928. Memor. Soc. Fauna & Flora Fenn. 5: 28-64. 1929 (Rec'd Ag.1931)

Memor. Soc. Fauna & Flora Fenn. (cont.)

Eklund, O.
On the resistibility of some seeds against sea-salt. Memor. Soc. Fauna & Flora Fenn. 5: 6-11. 1929(Rec'd Ag.1931)

Eklund, O.
Die quantitative diasporenproduktion einiger angiospermen. Memor. Soc. Fauna & Flora Fenn. 5: 11-28. 1929(rec'd Ag.1931)

Häyrén, E.
Rön om Siphula ceratites i Petsamo. Memor. Soc. Fauna & Flora Fenn. 5: 4-6. illus. 1929 (Rec'd Ag.1931)
German summary.

Häyrén, E.
Zwei notizen über das meereseis und die algen. Memor. Soc. Fauna & Flora Fenn. 5: 134-140. illus. 1929(Rec'd Ag.1931)
1. Hormidium flaccidum im schmelzwasser auf dem meereseise bei Helsingfors. 2. Ueber die verbreitung der algen mittels des meereseises.

Hidén, I.
Festuca gigantea (L.) Vill. in Finnland. Memor. Soc. Fauna & Flora Fenn. 5: 97-103. 1929(Rec'd Ag.1931)

Professor Viktor Ferdinand Brotherus. Memor. Soc. Fauna & Flora Fenn. 5: 173-178. port. 1929. (Rec'd Ag. 1931.)

Mem. Trab. Real. Inst. Nac. Inv. Cient. y Mus.Hist. Nat. Habana.

Sánchez y Alfonso, M.
Las algas de la Habana. Mem. Trab. Real. Inst. Nac. Inv. Cient. y Mus.Hist. Nat. Habana 1: 35-44. illus. 1930 (Rec'd S.1931)

Mezögazd.Kutat. Budapest.

Sándor, S.
A hazai nemesitett sörárpák fejlödéstania és alaktani összehasonlitása (Beiträge zur morphologischen charakterisierung der ungarischen braugerstensorten). Mezogazd. Kutat.-Budapest 4: 275-286. Jl./Ag. 1931. no.7/8.
German summary, p.285-286.

Mycologia (Lancaster, Pa.)

Emmons, C. W. & Dodge, B. O.
The ascocarpic stage of species of Scopulariopsis. Mycologia 23: 313-331. pl.26-28. S./O. 1931. no.5.
Microascus trigonosporus. M. intermedius, n.spp.

Jackson, H. S.
The rusts of South America based on the Holway collections - IV. Mycologia 23: 332-364. illus. S./O. 1931. no.5.
Mimema, gen. nov., M. holwayi.

Solheim, W. G. & Stevens, F. L.
Cercospora studies - II. Some tropical Cercosporae. Mycologia 23: 365-405. illus. S./O. 1931. no.5.
Describe many new species in Cercospora, Didymaria conjugans n.sp.; Ragnhildiana (gen.nov.)

Nachr. Schädlingsbekämpfung. (Leverkusen b. Köln a Rh.)

Marschner, G.
Etwas über den roggenstengelbrand. Nachr. Schädlingsbekämpfung 6: 93-94. illus. Ag.1931. no.3.

Thole, J.
Der brand auf unseren kulturgräsern und seine bekampfung. Nachr. Schadlingsbekampfung 6: 95-96. Ag.1931. no.3.

Nature (London)

Bond, C. J .
Segregation of floral characters in the wild oxlip. Nature 127: 708. My.9,1931. no.3210.
Primula vulgaris x P. veris.

Haas, P. & Hill, T. G.
Occurrence of dulcitol in a red seaweed. Nature 128: 378. Ag.29,1931. no.3226.

Onslow, M. S.
Chemical effect of a Mendelian factor for flower colour. Nature 128: 373-374. Ag.29,1931. no.3226.

Weiss, F. E.
Segregation of floral characters in the wild oxlip. Nature 128: 305. Ag.22, 1931. no.3225.

New Zeal. Journ. Agr. (Wellington)
Neill, J. C.
Effect of rusts and mildews on yield and quality of wheat. New Zeal. Journ. Agr. 43: 44-45. Jl.20, 1931. no.1.

Notizbl. Bot. Gart. Berlin.
Brückner, G.
Eine neue Geogenanthus-art. Notizbl. Bot. Gart. Berlin 11: 224. Jl.10,1931. no.103.
G. ciliatus.

Burret, M.
Palmae gerontogeae. Notizbl. Bot. Gart. Berlin 11: 204-207. Jl.10,1931. no.103.
Daemonorops beguinii, Actinophloeus cuneatus, A. hospitus, n.spp.

Burret, M.
Palmae novae austroamericanae. II. Notizbl. Bot. Gart. Berlin 11: 199-203. Jl.10,1931. no.103.
Geonoma cuneifolia, G. platybothros, G. camptoneura, Wendlandiella polyclada, n.spp.

Danser, B. H.
Tapinostemma meridianum eine neue tropisch-afrikanische loranthacee. Notizbl. Bot. Gart. Berlin 11: 216-217. Jl.10,1931. no.103.

Diels, L.
Miscellanea sinensia IV. Notizbl.Bot. Gart. Berlin 11: 208-215. Jl.10, 1931. no.103.

Markgraf, F.
Soldanella pindicola Hausskn. Notizbl. Bot. Gart. Berlin 11: 219-223. illus. Jl.10,1931. no.103.

Schulz, O. E.
Einige neue cruciferen. Notizbl. Bot. Gart. Berlin 11: 225-230. Jl.10, 1931. no.103.
Erysimum absconditum, E. remotiflorum, E. schlagintweitianum, Heliophila smithii, Nasturtium tweedici, n.spp.

Ulbrich, E.
Die ausstellung heimischer pilze in der schauabteilung des Museums. Notizbl. Bot. Gart. Berlin 11: 181-198. Jl.10,1931. no.103.

Obst- u. Gemüseb. (Berlin)

Bremer, H.

Der spargelrost. Obst- u. Gemüseb. 77: 132-134. illus. Ag.15, 1931. no.8.

Ohio Journ. Sci. (Columbus)

Schaffner, J. H.

Additions to the catalog of Ohio vascular plants for 193°. Ohio Journ. Sci. 331: 299-307. Jl. 1931. no.4.

Peanut Journ. & Nut World. (Suffolk)

Taubenhaus, J.J. & Ezekial, W. N.

Peanut diseases in Texas. Peanut Journ. & Nut World 10: 14,15-17. S.1931. no.11.

Chlorosis, southern blight, Phymatotrichum root-rot, leaf spot, wilt.

Pflanzenbau (Berlin)

Feistritzer, W.

Merkmale zum erkennen flugbrandkranker pflanzen bei winter - und sommergerste vor dem ährenschieben. Pflanzenbau 8: 16-17. illus. Jl.1931. no.1.

Schander, R., Profft, E. & Münchberg, P.

Beiträge zur atmung der kartoffelknolle. Pflanzenbau 8: 1-6 illus. Jl.1931. no.1.

Pharm. Journ. (London)

Redgrove, H. S.

Notes on nutmegs. Pharm. Journ. 127(IV,73): 184-186. Ag.29,1931. no.3539.

Phytopath.

Bamberg, R. H.

Bacteria antibiotic to Ustilago zeae. Phytopath. 21: 881-890. illus. S.1931. no.9.

Goodding, L. N.

Didymosphaeria oregonensis, a new canker organism on alder. Phytopath. 21: 913-918. illus. S.1931. no.9.

Fenne, S. B.

Field studies on the ring-spot disease of Burley tobacco in Washington county, Virginia. Phytopath. 21: 891-899. S.1931. no.9.

Phytopath. (cont.)

Illingworth, J. F.
Yellow spot of pineapples in Hawaii.
Phytopath. 21: 865-880. illus. S,1931. no.9.
Carried by thrips.

Johnson, D. E.
The antibiosis of certain bacteria to smuts and some other fungi. Phytopath. 21: 843-863. illus. S.1931. no.9.

McClintock, J. A.
The relation of canker treatment to fire-blight control. Phytopath. 21: 901-906. illus. S.1931. no.9.
Treatment of cankers of pear and apple with zinc chloride reduced the primary spread of the blight organisms.

Snell, W. H.
The Kelm mountain blister-rust infestation. Phytopath. 21: 919-921. S.1931. no.9.
Warren Co., N.Y.

Thornberry, H. H. & Anderson, H. W.
Bacterial leaf spot of Viburnum. Phytopath. 21: 907-912. illus. S.1931. no.9.
Phytomonas viburni, n.sp. on V. opulus, V. tomentosum, and V. dentatum.

Zeller, S. M.
A witches' broom of ocean spray (Holodiscus discolor). Phytopath. 21: 923-925. S.1931. no. 9.
Carried by Aphis spiraecae.

Pineapple Quart. Hawaii.

Godfrey, G. H. & Oliveira, J.
The development of the root knot nematode in root tissues. Pineapple Quart. Hawaii 1: 67-77. illus. Je.1931. no.2.

Lorimer, M. & Linford, M. B.
The heat resistance of some pineapple pathogens and other fungi. Pineapple Quart. Hawaii 1: 62-67. Je.1931. no.2.

Proc. Georgia-Florida Pecan Grow. Assoc.

Crane, H. L.
Growth and fruiting relations in the pecan. Proc. Georgia-Florida Pecan Grow. Assoc. 25(1931): 18-25. 1931.

Finch, A. H.
Nutritional relations of various types of pecan shoots. Proc. Georgia-Florida Pecan Grow. Assoc. 25(1931): 11-17. 1931.

Publ. Bot. Soc. Amer.

Andrew Charles Moore. Publ. Bot. Soc. Amer. 105: 21-24. Je.1931.

Caroline Adair Black. Publ. Bot. Soc. Amer. 105: 13-14. Je. 1931.

George Claude Hicks. Publ. Bot. Soc. Amer. 105: 16-19. Je.1931.

Grace Barkley. Publ. Bot. Soc. Amer. 105: 12-13. Je.1931.

J. Arthur Harris. Publ. Bot. Soc. Amer. 105: 14-16. Je. 1931.

Patrick Beveridge Kennedy. Publ. Bot. Soc. Amer. 105: 19-20. Je. 1931.

Publ. Fac. Sci. Univ. Masaryk. (Brno)

Sirjaev, G.
Generis Trigonella L. revisio critica III. Publ. Fac. Sci. Univ. Masaryk. no.128. 31 p. illus., pl. viii. 1930(Rec'd S.1931)

Rassegna Econ. Colon. Italy (Roma)

Bonacelli, B.
La cerealicoltura nell'Africa antica. Rassegna Econ. Colon. Ital. 19: 203-233, 441-473. Ja./F., Mr./Ap. 1931. no.1/2, 3/4.

Rep. Canada Exp. Farms (Rep. Dom. Bot.)

Güssow, H.

Report of the Dominion botanist for the year 1930. 185 p. illus. 1931.

I.General and economic botany, diseases of ornamentals, mycology and miscellanea. II. Forest pathology. III. Diseases of cereals and grasses. IV. Diseases of fruits and vegetables. V. Diseases of potatoes and field crops.

Includes reports of the Dominion laboratories, which are scattered through the report under various subject headings, but are brought together under the names of the laboratories in the table of contents.

Report Iowa State Hort. Soc.

Blair, J. C.

Some midwest contributions to American pomology. Rep. Iowa State Hort. Soc. 65(1930): 219-237. [1931]

Durst, C. E.

The new plant patent law and the development of horticulture. Rept. Iowa State Hort. Soc. 65(1930): 212-219. [1931]

Haber, E. S.

The effect of temperature on vegetable growing. Rep. Iowa State Hort. Soc. 65(1930): 387-393. [1931]

Hockey, J. F. & Harrison, K.A.

Apple pollen may be wind-borne. Rep. Iowa State Hort. Soc. 65(1930):248-250. [1931]

Res. Bull. Agr. Exp. Stat. So. Manchuria Railw. Co.

Terada, S. & Yoshitake, K.

The water relations of the cotton plant in Manchuria I. Transpiration and water requirement. Res. Bull. Agr. Exp. Stat. So. Manchuria Railw. Co. no.3. 56 p. 3 fold.tab. Ap.1931.

Japanese with English summary.

Res. Stud. State Coll. Washington (Pullman)

Jones, C. N.

New and noteworthy plants of the Pacific Northwest. Res. Stud. State Coll. Washington 2: 125-129. illus. D.1930(Rec'd S.1931) no.4.

Sedum rupicolum, Penstemon amabilis, n.spp. P. attenuatus var glabratus n.var.

Rev. Agriculteurs France.

Faes, H. & Staehelin, M.
La tavelure tardive causee par le champignon Venturia inaequalis sur les pommes de Garde.
Rev. Agricultures France 58: 258-262. Ag.1931. no.8.

Rev. Bot. Appl. (Paris)

Aubréville, A.
Les Entandrophragma de la Côte d'Ivoire (concl.)
Act. Compt. Rend. Assoc. Colon. Sci. 7: 145-155. Jl. 1931 (With Rev. Bot. Appl. v.11, no.119. Jl.1931)

Braun-Blanquet, J. & Pawlowski, B.
L'eau et l'air du sol dans l'association à Deschampsia media et Brunella hyssopifolia.
Rev. Bot. Appl. 11: 536-543. Jl.1931. no.119.

Chevalier, A.
Antony Houard. Rev. Bot. Appl. 11: 632. Jl. 1931. no.119.
Died June 12, 1931. at 57 years.

Chevalier, A.
Guillaume Capus. Rev. Bot. Appl. 11: 619-632. port. Jl.1931. no.119.

Chevalier, A. & Normand, D.
Quelques légumineuses de la côte d'Ivoire à bois utilisable. (fin.) Rev. Bot. Appl. 11: 569-577. illus. Jl. 1931. no.119.

Francois, E.
Le jardin botanique de Tananarive. Rev. Bot. Appl. 11: 544-553. illus. Jl. 1931. no.119.

Hédin, L.
Culture du manioc en Côte d'Ivoire; observations complémentaires sur la mosaique. Rev. Bot. Appl. 11: 558-563. Jl. 1931. no.119.

Navarro de Andrade, E.
Les eucalyptus comme arbres de reboisement pour les pays tropicaux et subtropicaux. (cont.) Rev. Bot. Appl. 11: 563-569. Jl.1931. no.119.

Rev. Gén. Bot. (Paris)

Hagene, P.

Recherches écologiques sur quelques groupements végétaux des environs de Dijon. (cont.) Rev. Gén. Bot. 43: 285-331. Jl.1931. no.511.

Loubière, A.

Anatomie comparé d'un nouveau genre de radiospermées. Rev. Gén. Bot. 43: 273-284. pl.19. Jl. 1931. no.511.

Coleospermum stephanense.

Rev.Hort. (Paris)

Laplace, F.

Les Rudbeckia. Rev. Hort. 103: 485-487. illus., Ag.15, 1931. no.20.

Lefeuvre, E.

Une nouvelle composée ornementale de l'Afrique du sud l'Ursinia anethoides N.E. Brown. Rev. Hort. 103: 480-481. illus. Ag.16, 1931. no.20.

Rev. Path. Vég. & Entom. Agr. (Paris)

Nicolas, G. & Aggéry, Mlle.

Une maladie grave de l'aubergine en 1930. Rev. Path. Vég. & Entom.Agr. 17: 394-395. D.1930. (Rec'd Ag.1931) no.10.

Sclerotinia libertiana.

Traitement des semences de céréales contre le charbon par le paraformaldéhyde. Rev. Path. Vég. & Entom. Agr. 17: 395. D.1930(Rec'd Ag.1931) no.10.

Quoted from communication from Jaczewsky.

Rhodesia Agr.Journ. (Salisbury)

Hopkins, J. C. F.

Some common diseases of potatoes in southern Rhodesia. Rhodesia Agr. Journ. 28: 736-742. 2 pl. Ag. 1931. no.8.

Rhodora (Boston)

Ashe, W. W.

Notes on Vacciniaceae. Rhodora 33: 193-198. S. 1931. no.393.

V. missouriense, V. serum, V. arkansanum, V. alto-montanum n.spp.; Decamerium brachycerum comb. nov. (V. brachycerum, Gaylussaccia brachycera).

Rhodora (cont.)

Bradley, L. J.
Rorippa amphibia in Fairfield county, Connecticut. Rhodora 33: 192-193. S.1931. no.393.

Fernald, M. L.
The home of Kerria japonica. Rhodora 33: 199-200. S.1931. no.393.
China and Japan.

Fernald, M. L.
Pedicularia labradorica. Rhodora 33: 193. S. 1931. no.393.
American plant should be called P. labradorica rather than P. euphrasioides.

Fernald, M. L.
Potentilla canadensis and P. simplex. Rhodora 33: 180-191. pl. 214-215. S.1931. no.393.

Juel, H. O.
The French apothecary's plants in Burser's herbarium. Rhodora 33: 177-179. S.1931. no.393.

Leeds, A. N.
The Pennsylvania stations of Arceuthobium pusillum. Rhodora 33: 191-192. S.1931. no.393.

Norton, A. H.
Mountain laurel (Kalmia latifolia) at Cherryfield, Maine. Rhodora 33: 198-199. S.1931. no.393.

Science (Lancaster, Pa.)

Mains, E. B.
Calvin Henry Kauffman. Science 74: 235. S.4, 1931. no.1914.

Waksman, S. A. & Nissen, W.
Lignin as a nutrient for the cultivated mushroom, Agaricus campestris. Science 74: 271-272. S.11. 1931. no.1915.

Science Bull. Univ. Kansas.

McNair, G. T.
Comparative anatomy within the genus Euonymus. Science Bull. Univ.Kansas 19: 221-260. pl. xxii-xxvii. Je.1930(Rec'd Ag.1931) no.2(11)

Science News Letter.

Brazilian wood causes skin poisoning like ivy. Science News Letter 20: 153. S.5,1931. no.543.
Embuia (Brazilian walnut) Nectandra sp.

Scient. Agr. (Ottawa)

Upshall, W. H.
The propagation of apples by means of root cuttings. Scient. Agr. 12: 1-30. illus. S.1931. no.1.

Sitzungsb. Akad. Wiss. Wien. Math-Naturw. Kl. Abt.I.

Fritsch, K.
Beobachtungen über blütenbesuchende insekten in Steiermark, 1910. Sitzungsb. Akad. Wiss. Wien Math.-Naturw. Kl. Abt. I. 139: 601-639. 1930(Rec'd Ag.1931) no.8/10.

Hofmann, E.
Anatomisches über Selaginella turkheimii und zwei Adiantum-formen aus Guatemala. Sitzungsb. Akad. Wiss. Wien. Math.-Naturw.Kl. Abt.I. 139: 641-644. illus. 1930(Rec'd Ag.1931) no.8/10.

Lämmermayr, L.
Vergleichende studien über die pflanzendecke oststeirischer basalte und basalttuffe. I- Sitzungsb. Akad. Wiss. Wien. Math.-Naturw. Kl. Abt.I. 139: 567-599. 1930 (Rec'd Ag.1931) no.8/10.

Sitzungsb. Akad. Wiss. Wien, Math.-Naturw. Kl. Abt.IIb.

Schmid, L. & Rumpel, W.
Ueber das anthochlor von Linaria vulgaris (gemeines leinkraut). Sitzungsb. Akad. Wiss. Wien, Math.-Naturw.Kl. Abt. IIB, 193: 1087-1101. 1930. (Rec'd Ag.1931) no.10.

Schmid, L. & Zacherl, M.K.
Ueber das Euphorbiumharz. Sitzungsb. Akad. Wiss. Wien. Math.-Naturw. Kl. Abt. IIB, 193: 859-882. 1930(Rec'd Ag.1931) no.9.

Schmid, L. & Huber, R.
Ueber die konstitution des farbstoffes des klatschmohns (Paapaver rhoeas). Sitzungsb. Akad. Wiss. Wien. Math.-Naturw.Kl. Abt.IIB,139: 1049-1060. 1930(Rec'd Ag.1931) no.10.

Sitzungsb. Akad. Wiss. Wien, Math.-Naturw. Kl. Abt.IIb. (cont.)
Wessely, F. & Lechner, F.
Ueber das ononin. I- Sitzungsb. Akad. Wiss. Wien. Math.-Naturw. Kl. Abt.IIB, 139: 1061-1070. 1930(Rec'd Ag.1931) no.10.

Smithson. Misc. Coll. (Washington)
Thériot, I.
Mexican mosses collected by Brother Arsène Brouard. III. Smithson. Misc. Coll. v.85, no.4. 44 p. illus. Ag.25, 1931. Publ. 3122.

Tasmanian Journ. Agr.
Dowson, W. J.
A note on the wood infection of pear by black spot. Tasmanian Jour. Agr. n.s., 2: 128. Ag.1, 1931. no.3.

Turner, H. A. & Dowson, W. J.
The date and duration of the winter spore discharge of black spot. Tasmanian Journ. Agr. n.s., 2: 124-128. Ag.1, 1931. no.3.

Trudy Vses. Issled. Inst. Plod. i Iagod. Khoz. v. Mleeve. Otd. Gen., Selek... (Bull. Inst. Invest. Tree & Small Fruit Cult. at Mleew. Sect. Gen., Select. &c.)
Koz'manov, S. I.
Ternoslivy Mleeva (The insititia plums of Mleew) Trudy Vses. Issled.Inst. Plod. i Iagod. Khoz. v. Mleeve Otd. Gen., Selek... (Bull. Inst. Invest. Tree & Small Fruit Cult. at Mleew.Sect. Gen., Select. &c.) no.2. 94 p. illus.,4 pl. 1931.
Russian with English summary.

Weekbl. Bolembollencult. (Haarlem)
Baijer, J. J. & Slogteren, E. van.
Vroegbroei van onze bolgewassen. Weekbl. Bloembollencult. 42: 119-123. illus. Ag.18, 1931.

Slogteren, E. van.
Warm-waterbehandeling van narcissen en bolrot. Weekbl. Bloembollencult. 42: 130-134. illus. Ag.21,1931. no.15.

Western Flor.

Ball, W. S.

How California handles the weed problem. Western Flor. 14: 5. S.3,1931. no.36.

Zeitschr. Angew. Chem. (Leipzig)

Wehmer, C.

Doppelnamen in der pflanzenchemie. Zeitschr. Angew. Chem. 44: 719-720. Ag.29, 1931. no.35.

Zeitschr. Forst- u. Jagdw. (Berlin)

Jahn, E.

Der frostkern der rotbuche. Zeitschr. Forst- u. Jagdw. 63: 429-443. pl.i-ii. Ag.1931. no.8.

Zeitschr. Pflanzenkr. (Stuttgart)

Tubeuf, C. von

Das spiel mit dem feuer. Zeitschr. Pflanzenkr. 41: 333-339. Jl.1931. no.7.

Eine warnung an Heern Dr. H. Freiherrn Geyr von Schweppenburg.

Exper. Stat. Publ.

Mowry, H.

Native and exotic palms of Florida. Florida Agr. Exp. Stat. Bull. 228. 71 p. illus. My.1931(Rec'd Ag.)

A revision of his Palms of Florida, issued 1926 as Bull. 184 Florida Agr. Exp. Stat.

West, E.

Powdery mildew of crape myrtle. Florida Agr. Exp. Stat. Press. Bull. 435. 2 p. Je. 1931.

Sp. of Erysiphe.

Ryker, T. C. & Edgerton, C. W.

Studies on sugar cane roots. Louisiana Agr. Exp. Stat. Bull.223. 36 p. illus. Jl. 1931.

Tu, C.

Physiologic specialization in Fusarium spp. causing headblight of small grains. Minnesota Agr. Exp. Stat. Techn. Bull. 74. 27 p. illus. D.1930(Rec'd S.1931)

Howlett, F. S.

Factors affecting fruit setting. I. Stayman winesap. Ohio Agr. Exp. Stat. Bull. 483. 54 p. illus. Ag.1931.

Exper. Stat. Publ. (cont.)

Wiggin, W. W. & Gourley, J. H.
Studies on the reactions of greenhouse soils to the growth of plants. Ohio Agr. Exp. Stat. Bull. 484. 30 p. illus. Ag.1931.

Taubenhaus, J. J. & Ezekiel, W. N.
Late-blight of potatoes and tomatoes. Texas Agr. Exp. Stat. Circ. 60. 15 p. illus. Jl.1931.

State Publications.

Chadwick, L. C.
Ornamental evergreens. Ohio State Univ. Agr. Ext. Serv. Bull. 113. 40 p. illus. D.1930. (Rec'd S.1931)

Ries, V. H. comp.
Condensed list of floriculture bulletins and books. Ohio State Univ. Agr. Exp. Serv. Bull. 108. 8 p. O.1930(Rec'd S.1931)

New Books.

Bresodola, J.
Iconographia mycologia XVIII. Mediolani, 1931.

Dallimore, W. & Jackson, A. B.
A handbook of Coniferae including Ginkgoaceae. 2d. ed. London, E Arnold, 1931.

Guillochon, L. & Guillochon, R.
Culture des fruits du Midi et de l'Afrique du Nord. Paris, J.-B. Baillière et fils, 1931.

Heuser, O. E.
Die luzerne... Berlin, P. Parey, 1931.
Krankheiten, p.214-219.

Hubert, E. E.
An outline of forest pathology. N.Y., J. Wiley & sons, 1931.

Imperial bureau of plant genetics.
Wheat breeding bibliography. Cambridge, Engl., [1931]

Kovachevski, I.
Bolestitiè po fasula v Bulgariià (Bean diseases in Bulgaria). Sofiia, 1930.
Bulgarian with English summary.

New Books. (cont.)

Khristov, A. Nikolki/novi rastitelni bolesti za Bulgariia (Einige für Bulgarien neue pflanzen-krankheiten). Sofiia, 1931. (Ministerium für landwirtschaft und staatdomänen. Landwirtschaftsbibliothek. no.43)
Bulgarian with German summary.

Khristov, A.
Pleosporozata po kulturniia mak (The Pleospora disease of cultivated poppy). Sofiia, 1930.
Bulgarian with English summary.
P. calvescens.

Maiden, J. H.
A critical revision of the genus Eucalyptus... ed. by R.H. Cambage & W.F. Blakely. pt. LXXV (v.8, pt.5) Sydney, 1931.

Méniaud, J.
Nos bois coloniaux. Paris, Bureau de vente des publications officielles de l'Agence générale des colonies, [1931]
Arranged alphabetically under common names.
Reprinted in part from Bull. Agence Gén. Colon. France v.23(no.261-2), v.24, (no.263.)

Neues handbuch der tropischen agrikultur lfg. 37-39. [1931]
37. Hoffmann, W. Sisal und andere agaven. 38. Costenoble, H.V. Manilahanf, 39. Hoffman, W. Die kultur der vanille.

North American flora v.17, pt.4. Poaceae (pars).
A.S. Hitchcock, Ag.14, 1931.

Ochse, J. J. & Bakhuizen van den Brink, R. C.
Fruits and fruitculture in the Dutch East Indies English ed. of Vruchten en vruchtensteelt in Nederlandsch-Oost-Indie. Batavia, G. Kolff & Co., 1931.

Pflanzenareale. 3. reihe, heft 3. Drogenpflanzen I. Alkaloid-drogenpflanzen, von W. Himmelbaur. 1931.

Sandstede, H.
Die gattung Cladonia lfg. 2(schlusslfg.) Leipzig, 1931. (Dr.L.Rabenhorst's Kryptogamen-flora... IX. bd. Die flechten IV. abt., 2 hälfte).

New Books. (cont.)

Wilson, E. H.

If I were to make a garden. Boston, Stratford company, 1931.

Many if not all of the chapters of this book are reprinted, sometimes with slight changes, from House & Garden.

Translations filed in Library of Bur. of Plant Industry.

Gassner, G.

Beiträge zur physiologischen charakteristik sommer- und winterannueller gewächse, insbesonderer der getreidepflanzen. (Contributions to the physiological characteristics of summer- and winter-annuelle, especially cereal crops) Zeitschr. Bot. 10: 417-480. 1918.

Rye in particular.

Correction.

All entries under Tasmanian Journ. Agr. in v.12, no.2, 16,22, vol.13, no.2,8,11 should have n.s. inserted before the vol. no.

In vol. 13, no. 8, p. 37-38 under Tasmanian Jour. Agr. no.2. should be no.1 in every entry.

In vol. 12, no.22, p. 20 under Tasmanian Journ. Agr., Hicks, F. A. should be Hicks, F.W.; Dawson, W. J. should be Dowson, W. J.

Non-current indexing.

Proc. Amer. Phil. Soc.

True, R. H.

The toxicity of molecules and ions. Proc. Amer. Philos. Soc. 69: 231-245. 1930.

Proc. Pacific Sci. Congr. 4th, Java, 1929.

Berg, L. S.

Origin of the northern elements in the fauna and flora of the tropical and southern Pacific. Proc. Pacific Sci. Congr. 4th, Java, 3: 467-470. 1930.

Dufrenoy, J.

Changes induced in cells of sugar cane by mosaic. Proc. Pacific Sci. Congr. 4th, Java, 1929, 4: 25-27. illus. 1930.

Non-current indexing: (cont.)

Proc. Pacific Sci. Congr. 4th, Java, 1929. (cont.)

Elst, P. van der.
The "mentek" disease of rice. Proc. Pacific Sci. Congr. 4th, Java 1929, 4: 329-331, 1930.

Faber, F. C. von.
The physiology of the mangrove. Proc. Pacific Sci. Congr. 4th, Java 1929, 3: 113-120. 1930.

Haan, J. Th. de.
Review of the cocoa selection experiments in Mid Java. Proc. Pacific Sci. Congr. 4th, Java, 1929. 4: 257-264. 1930.

Haskell, R.
Notes on the occurrence of rice diseases in the United States. Proc. Pacific Sci. Congr. 4th, Java 1929, 4: 29-32. 1930.

Koriba, K. & Imamura, S.
On the geographical distribution of Podostemonaceae in Japan, with special reference to the means of migration. Proc. Pacific Sci. Congr. 4th, Java 1929, 3: 173-176. illus. (map) 1930.

Kryshtofovich, A. N.
Prinicpal features of evolution of the flora in Asia in the tertiary period. Proc. Pacific Sci. Congr. 4th, Java, 1929. 3: 253-263. 1930.

Kuwana, S. L.
Important diesease of rice crop in Japan. Proc. Pacific Sci. Congr. 4th, Java 1929, 4: 203-207. 1930.

Lambers, H. R.
Historical review of the coffee selection in Java. Proc. Pacific Sci. Congr. 4th, Java, 1929. 4: 191-201. 1930.

Posthumus, O.
On some ferns of eastern Java. Proc. Pacific Sci. Congr. 4th, Java, 1929, 3: 191-200. fold.map. 1930.

Non-current indexing (cont.)
Proc. Pacific Sci. Congr. 4th Java, 1929 (cont.)

Pasquier, R. du
Amélioration des plantes de grandes cultures. Proc. Pacific Sci. Congr. 4th, Java, 1929, 4: 483-505. map. 1930.

Pételot, A.
Contribution a l'étude des champignons du Tonkin. Urédinées et Ustilaginées. Proc. Pacific Sci. Congr. 4th, Java 1929, 4: 321-327. 1930.

Rabaya, C.
The Manila elemi industry in Tayabas. Proc. Pacific Sci. Congr. 4th, Java 1929, 4: 507-517. illus. 1930.

Schmöle, J. F.
The selection of oilpalms (Elaeis guineensis Jacq.) Proc. Pacific Sci. Congr. 4th Java, 1929 4: 185-190. 1930.

Schreiner, O.
The role of the rarer elements in soils and plants. Proc. Pacific Sci. Congr. 4th Java 1929, 4: 471-482. illus. 1930.

Schweizer, J.
The selection of Coffea arabica. Proc. Pacific Sci. Congr. 4th, Java, 1929. 4: 265-270. 1930.

Skottsberg, C.
The case of Juan Fernandez. Proc. Pacific Sci. Congr. 4th, Java 1929, 3: 401-403. 1930.

Skottsberg, C.
The geographical distribution of the sandalwoods and its significance. Proc. Pacific Sci. Congr. 4th, Java, 1929, 3: 435-440. 2 pl. on 1. 1930.

Skottsberg, C. J. F.
Pollination and seed dispersal in the Juan Fernandez Islands. Proc. Pacific Sci. Congr. 4th, Java, 1929, 3: 395-399. 1930.

Non-current indexing. (cont.)

Proc. Pacific Sci. Congr. 4th Java,1929 (cont.)

Vries, O. de., Schweizer, J. & Ostendorf, F. W.
Selection of Hevea in Java. Proc. Pacific Sci. Congr. 4th,Java, 1929,4: 157-171. 1930.

Went, F. A. F. C.
On the distribution of the Podostemonaceae in eastern Asia. Proc. Pacific Sci. Congr. 4th. Java, 1929, 3: 421-425. 1930.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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U. S. Department of Agriculture

Vol. 13, no. 19. Sept. 14-26, 1931.

Admin. Rep. Dir. Agr. Brit. Guiana.

Martyn, E. B.
Report of the botanical and mycological division for the year 1930. Admin. Rep. Dir. Agr. Brit. Guiana 1930: 93-99. 1931.

Agr. & Live-Stock, India. (Calcutta)

Aiyangar, G. S.
Pollen tube entry into cotton ovule. Agr. & Live-stock, India 1: 471-472. pl. xxxiii. Jl. 1931. no.4.

Dastur, J. F.
Potato storage in the Central Provinces. Agr. & Live-Stock, India 1: 374-381. pl.xxxiii-xxxiv. Jl. 1931. no.4.

Ramiah, K.
Preliminary investigations on the occurrence of sterility in rice (O. sativa). Agr. & Live-Stock India 1: 414-426. pl. xxxv-xxxvii. Jl.1931. no.4.

Uppal, B. N. & Desai, M. K.
The effectiveness of dust fungicides in controlling grain smut of sorghum. Agr. & Live-Stock, India 1: 396-413. Jl.1931. no.4.

Agr. Gaz. N.S.W. (Sydney)

Birmingham, W. A.
Black spot or scab of apple. Experiments for its control in New South Wales. I. Distribution, life-history, etc. Agr. Gaz. N.S.W. 42: 635-640. illus. Ag.1, 1931. no.8.

Amer. Nat. (Lancaster, Pa.)

Cunningham, B.
Grass in a turtle egg. Amer. Nat. 65: 478-479. illus. S./O. 1931. no.700.
Spartina patens.

Flory, W. S. jr.
Chromosome numbers in Phlox. Amer. Nat. 65: 473-476. S./O. 1931. no.700.

Amer. Nat. (cont.)

Husted, L.
Chromosome number in species of peanut, Arachis. Amer. Nat. 65: 476-477. illus. S./O. 1931. no.700.

Angew. Bot. (Berlin)

Kinzel, W.
Höhenkeimer. Angew. Bot. 13: 338-351. Jl./Ag. 1931. no.4.

Ostermann, W.
Vergleichende morphologische und physiologische untersuchungen am wurzelsystem verschiedener kartoffelsorten. Angew. Bot. 13: 297-337. illus. Jl./Ag.1931. no.4.

Rabanus, A.
Die toximetrische prüfung von holzkonservierungsmitteln. Angew. Bot. 13: 352-371. illus. Jl./Ag.1931. no.4.

Ann. Scient. Univ. Jassy.

Papp, C.
Contribution a la distribution geographique du genre Melica L. de l'Argentine. Ann. Scient. Univ. Jassy 16: 299-300. map. 1930(Rec'd Jl.1931) no.1/2.

Cretzoiu, P.
Quelques plantes nouvelles pour la flore de Roumanie. Ann. Scient. Univ. Jassy 16: 299-300c. 1930(Rec'd Jl.1931) no.1/2.

Ann. Phytopath. Soc. Japan (Tokyo)

Ikato, S. & Hitomi, T.
A new leaf-blight disease of the grape-vine. Ann. Phytopath. Soc. Japan 2: 357-373. illus. 2 pl. Mr.1931(Rec'd Jl.) no.4.
Japanese with English summary.
Acrospermum viticola n.sp.

Ito, S. & Shimada, S.
On the nature of the growth promoting substance excreted by the "bakanae" fungus. Ann. Phytopath. Soc. Japan 2: 322-338. pl. Mr.1931(Rec'd Jl.) no.4.

Ann. Phytopath. Soc. Japan. (cont.)

Nakata, K.
Accessory food substance in relation to growth of Bact. hyacinthi. Ann. Phytopath. Soc. Japan 2: 339-349. Mr.1931(Rec'd Jl.) no.4.
Japanese with English summary.

Takimoto, S.
A soft rot of sugar beet and its causal organisms. Ann. Phytopath. Soc. Japan. 2: 350-356. Mr. 1931. (Rec'd Jl.) no.4.
Japanese with English summary.
Bacillus betivorus n.sp.

Ann. Rep. Dept. Agr. Jamaica.

Smith, F. E. V.
Plant diseases and pests. Ann. Rep. Dept. Agr. Jamaica 1930: 14-19. 1931.
Report of the supervising inspector of plant diseases (J.B. Sutherland): p.19-20.

Ann. Rep. Dept. Agr. North. Rhodesia.

Allan, W.
Entomology and plant pathology. Ann. Rep. Dept. Agr. North Rhodesia 1930: 20-24. 1931.
Mainly entomological.

Stevenson, D.
A list of the more important indigenous trees. Ann. Rep. Dept. Agr. North Rhodesia 1930: 46-50. 1931.
With vernacular names.

Ann. Rep. East Malling Res. Stat.

Harris, R. V.
The crown-gall disease of nursery stocks. II. The relative susceptibility of apple stocks to crown gall. Ann. Rep. East Malling Res. Stat. 16/18(2): 140-142. 2 pl. on 1. Ap.1931.

Harris, R. V.
Notes on diseases of the raspberry, loganberry and blackberry in 1928-1930. Ann. Rep. East Malling Res. Stat. 16th/18th(2): 133-139. Ap.1931.

Ann. Rep. East Malling Res. Stat. (cont.)

Moore, M. H.
The effect of meteorological conditions on apple scab, with special reference to the control of the disease. Ann. Rep. East Malling Res. Stat. 16/18 (2): 157-176. Ap.1931.

Moore, M. H.
Investigations on Coniothecium. A progress report. Ann. Rep. East Malling Res. Stat. 16/18(2): 150-156. pl. 1931. Ap.
Coniothecium believed to be C. chomatosporum, associated with cracking and russeting of apple fruits and blistering of twigs.

Roach, W. A.
The chemistry of the rootstock-scion effect. II. Methods for testing the effects of substances in solution on fruit trees. Ann. Rep. East Malling Res. Stat. 16/18(2): 105-110. Ap.1931.

Rogers, W. S.
Recording apparatus for horticultural experiments including automatic counting devices. Ann. Rep. East Malling Res. Stat. 16/18(2): 65-73. illus., 4 pl. on 2. Ap.1931.

Vyvyan, M. C.
Course of growth in an apple stock during the maiden year. Ann. Rep. East Malling Res. Stat. 16/18(2): 85-97. Ap.1931.

Wormald, H.
Notes on plant diseases in 1928-1930. Ann. Rep. East Malling Res. Stat. 16/18(2): 123-132. Ap.1931.

Wormald, H.
Plant pathology. Mycology and bacteriology. Ann. Rep. East Malling Res. Stat. 18(1930): 87-98. Ap.1931.

Ann. Rep. Quebec Soc. Prot. Plants

Caron, O.
Control of apple scab in the Quebec region. Ann. Rep. Quebec Soc. Prot. Plants 22: 47-48. 1931.

Ann. Rep. Quebec Soc. Prot. Plants (cont.)

Coulson, J. G.
Notes on some essentials in the operation of a spray service for apple scab control. Ann. Rep. Quebec Soc. Prot. Plants 22: 12-16. 1931.

Machacek, J. E.
The fire blight problem. Ann. Rep. Quebec Soc. Prot. Plants 22: 55-67. 1931.

Racicot, H. N.
The control of apple diseases in Quebec in relation to cultural methods. Ann. Rep. Quebec Soc. Prot. Plants 22: 49-50. 1931.

Racicot, H. N.
Raspberry diseases and their control in Quebec. Ann. Rep. Quebec Soc. Prot. Plants 22: 51-54. 1931.

Arch. Exp. Path. u. Pharm. (Leipzig)

Fromherz, K. & Welsch, A.
Vergleich der toxizität verschiedener herzwirksamer reinsubstanzen und fraktionen aus Digitalis purpurea für den frosch und die katze bei verschiedenen applikationsbedingungen. Arch. Exp. Path. u. Pharm. 161: 266-305. illus. Ag.7, 1931. no.3.
Gitalin, gitoxin.

Kochmann, M.
Zur pharmakologie der mistel. Arch. Exp. Path. u. Pharm. 161: 553-561. illus. Ag.22,1931. no.4/5.

Arch. Suikerind. Nederl. Indië. (Soerabaja)

Koningsberger, V. J. and Honert, T. H. van
Nogmaals over de oorzaak der z.g. kalimati-ziekte. Arch. Suikerind. Nederl.-Indië 1: 161-166. F.24, 1931. no.8.

Posthumus, O.
Overzicht der op Java inheemsche en ingevoerde oorspronkelijke rietsoorten. Arch. Suikerind. Nederl. Indië 1931: 901-911. Ag.11, 1931. no.32.

Wilbrink, G.
Kritiek op de voorloopige mededeeling van Dr. V. J. Koningsberger, en Dr. T. H. Van den Honert: over de oorzaak der z.g.kalimati-ziekte. Arch. Suikerind. Nederl.-Indie 1: 141-146. F.17, 1931. no.7.

Bergcultures (Batavia, Java)
Reydon, G. A.
Over de meest in besoeki voorkomende wortelschimmels bij rubber en koffie. Bergcultures 5: 892-909. Ag.15, 1931. no.33.

Better Crops (N.Y.)
Gregory, C. T.
Fertility and the black spot of roses. Better Crops 17(3): 17, 56-57. illus. S.1931. no.3.

Lee, O. C.
Winter weed hosts. Better Crops 17(3): 26-27, 60. illus. S.1931.

Biochem. Zeitschr. (Berlin)
Borchardt, H. & Pringsheim, H.
Ueber malzamylase und kartoffelamylase. Biochem. Zeitschr. 239: 193-200. Ag.31,1931. no.1/3.

Kreitmair, H. & Küssner, W.
Ueber den alkaloidgehalt von Claviceps purpurea bei kultivierung auf künstlichen nährboden. Biochem. Zeitschr. 239: 189-192. illus. Ag.31, 1931. no.1/3.

Scharrer, K. & Schropp, W.
Weitere untersuchungen über die wirkung steigender jodmengen in form von jodid-, jodat- und perjodat-ion sowie elementarem jod auf die keimung und die erste jugendentwicklung verschiedener kulturpflanzen. Biochem. Zeitschr. 239: 74-93. illus. Ag.31, 1931. no.1/3.

Blumen. u. Pflanzenb. (Berlin)
Laubert, R.
Eine sehr schädliche krankheit der Daphne mezereum L. Blumen. u. Pflanzenb. 46: 138-139. illus. S.1, 1931. no.9.
Marssonina daphnes.

Bol. Agr. Min. Industr. Colombia.
Johnston, J. R.
Enfermedades del cacao. Bol. Agr. Min. Industr. Colombia 4: 134-135. Mr./Ap.1931 (Rec'd S.) no.3/4.

Bol. Agr. Min. Industr. Colombia (cont.)
Pérez Arbeláez, E.
Herbario nacional colombiano. Bol. Agr. Min. Industr. Colombia 4: 123-124. Mr./Ap. 1931. (Rec'd S.) no.3/4.

Soriano, A.
Especies colombianas de la familia de las flacourtiáceas. Bol. Agr. Min. Industr. Colombia 4: 167-178. Mr./Ap.1931(Rec'd S.) no.3/4.
Comision cientifica al Caquetá, sección botánica.

Bol. Lab. Path. Veg. Bahia.
Bondar, G.
Batata doce. A sua cultura, as variedades conhecidas na Bahia e os inimigos. Bol. Lab. Path. Veg. Bahia 10. 44 p. illus. 1931.

Boll. R. Ist. Sup. Agr. Pisa.
Bonaventura, G.
Contributo alla conoscenza del parassitismo della Cuscuta pentagona Engel. Boll. R. Ist. Sup. Agr. Pisa 6: 429-434. 3 pl. 1930.

Calli, P.
Sui danni causati dal freddo ad alcune piante erbacee e legnose coltivate nell'inverno 1928-29. Boll. R. Ist. Sup. Agr. Pisa 6: 189-193. 1930.

Leoncini, G.
Effetto di lesioni artificiali (foratura), prodotte in epoche diverse, sulla maturazione e sulla senescenza dei fruitti di Diospyros kaki. Boll. R. Ist. Sup. Agr. Pisa 6: 553-561. 1930.

Leoncini, G.
Frutti con semi perfetti e frutti con semi completamente abortiti nel Diospyros kaki. Boll. R.Ist. Sup. Agr. Pisa 6: 543-550. 1930.

Leoncini, G.
Osservazioni circa alcuni costituenti dei fruitti del Diospyros kaki. Boll. R. Ist. Sup. Agr. Pisa 6: 525-540. 1930.
Influenza della stagione e la ricchezza in certi costituenti dei medesimi frutti.

Boll. R. Ist. Sup. Agr. Pisa (cont.)

Leoncini, G. & Rogai, F. A.
Osservazioni sulle variazioni della sostanza zuccerina durante la maturazione di alcuni frutti. Boll. R. Ist. Sup. Agr. Pisa 6: 443-461. tab. 1930.
Apricot, peach, plum.

Leoncini, G.
Possono i tessuti cotiledonari residui esercitare nel periodo post-germinativo un potere selettivo a vantaggio della giovane pianta? Boll. R. Ist. Sup. Agr. Pisa 6: 657-662. 1930.
Vicia faba.

Nuccorini, R.
Germinabilità e catalasi dei semi. Boll. R. Ist. Sup. Agr. Pisa 6: 321-335. 1930.

Nuccorini, R.
Sulle sostanze fluorescenti alla luci di Wood contenute nei vegetali II. Nota. Boll. R. Ist. Sup. Agr. Pisa 6: 249-262. 1 pl. 1930.

Perotti, R. & Ferretti, C.
L'azione del carbone sulla vegetazione. (III Memoria). Boll. R.Ist. Sup. Agr. Pisa 6: 147-169. illus. 1930.

Perotti, R.
Note fitopatologiche per gli anni 1927-29. Boll. R. Ist. Sup. Agr. Pisa 6: 131-143. 1930.

Verona, O. & Sbrana, G.
Alcune osservazioni sulla "scabbia" o "schorf" dei tuberi di patata. Boll. R. Ist. Sup. Agr. Pisa 6: 117-127. illus. 1930.

Boll. R. Ist. Sup. Agr. Pisa (cont.)

Verona, O.
Di alcuni casi patologici esaminati presso il R. Osservatiorio regionale di fitopatologia di Pisa. Boll. R. Ist. Sup. Agr. Pisa 6: 173-185. 8 pl. 1930.
Rognostià su mandorlo; Cancrena del cavolo; Nectria ditissima Tul.; Cancro della Robinia; Phyllosticta ceratoniae, Berk.; Ruggine del bossolo; Ingiallimento del frumento.

Verona, O. & Franchini, R.
Il Fusarium martii App. e Wr. nella micobatteriosi dell'oleandro. Boll. R. Ist. Sup. Agr. Pisa 6: 105-114. illus., 1 pl.fold. 1930.

Verona, O.
Marciume dei frutti di pomodoro dovuto a "Rhizopus nigricans" Ehr. Boll. R. Ist. Sup. Agr. Pisa 6: 647-653. pl. 1930.

Verona, O.
Qualche osservazione colturale sul Tricothecium roseum Link. Boll. R. Ist. Sup. Agr. Pisa 6: 643-645. 1930.

Boll. Sez. Ital. Soc. Intern. Microbiol. (Milano)

Carbone, D. & Jarach, M.
Sur le mécanisme de l'immunité acquise active chez les plantes. Boll. Sez. Ital. Soc. Intern. Microbiol. 3: 54-56. F.1931. no.2.

Carbone, M.
La vaccination des plantes. Boll. Sez. Ital. Soc. Intern. Microbiol. 3: 396-398. Jl./Ag. 1931. no.7/8.
Communication au IIIème Congrès de microbiologie de Milan.

Montemartini, L.
La pathogénèse des maladies des plantes. Boll. Sez. Ital. Soc. Intern. Microbiol. 3: 360-395. Jl./Ag. 1931. no.7/8.
Relation au IIIème Congrès de microbiologie de Milan.

Perotti, R.
Les myco-bactérioses. Boll. Sez. Ital. Soc. Intern. Microbiol. 3: 209-211. Je.1931. no.6.

Bot. Gaz. (Chicago)

Andersen, E. N.
Discharge of sperms in Marchantia domingensis. Bot. Gaz. 92: 66-84. illus. S.1931. no.1.

Berkley, E. E.
Marcescent leaves of certain species of Quercus. Bot. Gaz. 92: 85-93. illus. S.1931. no.1.

Borthwick, H. A.
Development of the macrogametophyte and embryo of Daucus carota. Bot. Gaz. 92: 23-44. illus. S. 1931. no.1.

Haas, A. R. C. & Klotz, L. J.
Further evidence on the necessity of boron for health in citrus. Bot. Gaz. 92: 94-100. illus. S. 1931. no.1.

Stamm, A. J.
A new method for determining the proportion of the length of a tracheid that is in contact with rays. Bot. Gaz. 92: 101-107. illus. S. 1931. no.1.

Tuan, H.
Unusual aspects of meiotic and postmeiotic chromosomes of Gasteria. Bot. Gas. 92: 45-65. illus., pl.i-ii. S. 1931. no.1.

Walker, E. R.
The gametophytes of three species of Equisetum. Bot. Gaz. 92: 1-22. illus. S.1931. no.1.
E. kansanum, E. arvense, E. telmateia.

Bot. Tidsskr. (København)

Andersen, S.
Om vegetationen paa danske Kaempejøje. Bot. Tidsskr. 41: 283-303. 1931. no.4.

Christiansen, M. P.
Cordyceps capitata (Holmsk.)Link. Bot. Tidsskr. 41: 358-359. illus. 1931. no.4.

Bot. Tidsskr. (cont.)

Christiansen, M. P.
Rhizina undulata Fr. (Elvela inflata Schaeff.)
Bot. Tidsskr. 41: 356-357. illus. 1931. no.4.

Clausen, J.
Danmarks viol-arter. Bot. Tidsskr. 41: 317-335. illus. 1931. no.4.
English summary: p.331-334.

Gröntved, J.
Bidrag til Anholts flora. Bot. Tidsskr. 41: 310-316. 1931. no.4.

Lund, P. J.
Bidrag til Vendsyssels mosflora. II. Bot. Tidsskr. 41: 304-309. 1931. no.4.

Paulsen, O.
C. H. Ostenfeld, 1873-1931. Bot. Tidsskr. 41: 269-282. port. 1931. no.4.

Bull. Agence Gén. Colon. France. (Paris)

Heim de Balsac, F., Dagand, G. S., Heim de Balsac, H. & Husson, M.
La graine oléagineuse et l'huile de "rohituka" (Aglaia polystachya Wall.) [méliacées]. Bull. Agence Gén. Colon. France 24: 1074-1093. 4 pl. Jl. 1931. no.269.

Bull. Agr. Congo Belge (Bruxelles)

Staner, P. & Corbisier, A.
Essences à bois cultivées au jardin botanique d'Eala. Bull. Agr. Congo Belge 22: 50-70. illus. Mr. 1931. no.1.

Staner, P.
Mosaique des feuilles de manioc. Bull. Agr. Congo Belge 22: 75-80. illus. Mr.1931. no.1.

Tihon, L.
A propos d'une variété nouvelle de soja O-tooton. Bull. Agr. Congo Belge 22: 120-123. Mr. 1931. no.1.

Bull. Buffalo Soc. Nat. Hist.

Burkholder, P. R.
Studies in the phytoplankton of the Cayuga lake basin, New York. Bull. Buffalo Soc. Nat. Sci. 15: 21-181. illus., (incl.map), pl. 1931. no.2.

Bull. Dept. Agr. Kanya(Nairobi)
McDonald, J.
Diseases of the potato in Kenya. In
Gillett, S. A bulletin on the potato. Bull.
Dept. Agr. Kenya 10(1931): 7-13. 1931.

Bull. Min. Agr. Egypt. Techn. & Sci. Serv.
Sirag-el-din, A.
The citrus twig gum disease in Egypt.
Bull. Min. Agr. Egypt Techn. & Sci. Serv. no.109.
63 p. incl. 17 pl. (2 col.) 1931.
Fusarium solani.

Bull. Pop. Inform. Arnold Arb.
Bennett, E. D.
Arboreta and botanic gardens in the United
States. Bull. Pop. Inform. Arnold Arb. III, 5:
53-60. illus. S.21, 1931. no.14/15.

Bull. Soc. Chim. Biol. (Paris)
Bourdouil, C.
Sur une métnode biochimique de dosage de l'amidon
dans les plantes. Bull. Soc. Chim. Biol. 13:
809-813. Jl./Ag.1931. no.7.

Bridel, M. & Lavieille, R.
Le principe sucré du kaà-hê-e (Stevia rebaudiana
Bertoni) II-III. Bull. Soc. Chim. Biol. 13: 781-
796. Jl./Ag. 1931. no.7.
II. L'hydrolyse diastasique du stévioside. III.
Le stéviol de l'hydrolyse diastasique et l'isostéviol
de l'hydrolyse acide.

Charaux, C. & Rabaté, J.
Contribution à l'étude biochimique du genre
Salix. IV. La constitution chimique du salipurposide.
Bull. Soc. Chim. Biol. 13: 814-820. Jl./Ag.1931.
no.7.

Bull. Soc. Sci. Nat. Maroc. (Rabat)
Werner, R. G.
Contribution a la flore cryptogamique du Maroc.
III Bull. Soc. Sci. Nat. Maroc 10: 217-226.
D.31, 1930(Rec'd S.1931) no.7/9.

Bull. Torr. Club.

Bartram, E. B.
A review of the American species of Daltonia.
Bull. Torr. Club 58: 31-48. pl.3-4. Ja.1931.
(Rec'd S.) no.1.
D. brevinervis. n.sp.

Morris, H. S.
Physiological effects of boron on wheat.
Bull. Torr. Club 58: 1-30. pl. 1-2. Ja.1931.
(Rec'd S.) no.1.

Skeels, H. C.
Nomenclatural notes. Bull. Torr. Club 58:
49-50. Ja.1931. (Rec'd S.) no.1.
Syzygium paniculatum not Eugenia paniculata,
Pheonicophorium not Stevensonia.

Butler Univ. Bot. Stud. Paper (Indianapolis)

Daubenmire, R. F.
The acid ranges of some spring-flowering herbs
with reference to variations in floral color.
Butler Univ. Bot. Stud. Paper 2: 25-28. Ag.1931.
no.2/4.

Daubenmire, R. F.
Factors favoring the persistence of a relic
association of eastern hemlock in Indiana. Butler
Univ. Bot. Stud. Paper 2: 29-32. Ag. 1931. no.2/4.

Stanley, O. B.
Fat deposits in certain Ericaceae. Butler
Univ. Bot. Stud. Paper 2: 33-41. illus. Ag.
1931. no.2/4.

Cactus & Succ. Journ. (Los Angeles)

Britton, N. L. & Rose, J. N.
The Cactaceae... 1919-23.
This work is to be reprinted in Cactus & Succ.
Journ., beginning with the present no. (v.3, no.3. S.
1931) which contains vii, 1-6 p.
"Additional material, comments and changes are
to be made in an additional two pages, each issue
of the journal".

Frick, G. A.
Euphorbia caput-medusae, minor. Cactus &
Succ. Journ. 3: 50-51. illus. S.1931. no.3.

Cactus & Succ. Journ. (cont.)

West, J.
Etcheveria or Eckeveria. A question of pronunciation. Cactus & Succ. Journ. 3: 57-58. S.1931. no.3.

White, A. & Sloane, B. L.
The Stapelieae. Cactus & Succ. Journ. 3: 47-50. illus. S.1931. no.3.

Wright, Y.
Genus Lophophora. Cactus & Succ. Journ. 3: 55-56. illus. S.1931. no.3.

Calif. Citrogr. (Los Angeles)

Way to protect young tree from brown rot gummosis. Calif. Citrogr. 16: 566. illus. O.1931. no.12.

La Cellule (Lierre, Belgium)

Jungers, V.
Figures caryocinétiques et cloisonnement du protoplasme dans l'endosperme d'Iris. La Cellule 40: 291-353. illus., v pl. (pt.fold.) 1931. no.3.

Weier, T. E.
A study of the moss plastid after fixation by mitochondrial osmium and silver techniques. I. The plastid during sporogenesis in Polytrichum commune. La Cellule 40: 259-289. iv pl.(pt.fold.) 1931. no.3.

Citrus Indust. (Tampa, Fla.)

Rhoads, A. S.
Clitocybe mushroom rot of citrus trees and other woody trees in Florida. Citrus Indust. 12(9): 5-9, 38-40. illus. S.1931.

Citrus Riv. Camera Agrum. Messina.

Ruggieri, G.
Note tecniche sul "mal secco" degli agrumi. Citrus Riv. Camera Agrum. Messina II, 17: 91-95. illus. Ap.1931. no.4.

Compt. Rend. Assoc. Franç. Avanc. Sci.

Blanché, F.
Notes sur les champignons de l'Oranie. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 195-200. 1930(Rec'd S.1931)

Compt. Rend. Assoc. Franç. Avanc. Sci. (cont.)

Chemin, E.
Quelques algues marines nouvelles pour la région de Roscoff. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 200-203. 1930(Rec'd S.1931)

Coulouma, J.
Flore de la vallee de la Cesse. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 203-212. illus. (map) 1930(Rec'd S.1931)

Frémy, P. abbe.
Les Cylindrospermum de la Normandie. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 407-410. illus. 1929(Rec'd S.1931)

Frémy, P. abbe.
Sur la présence en Tunisie, de Calothrix vivipara Harv. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 213-216. illus. 1930(Rec'd S.1931)

George, L.
Sur l'anatomie de l'Ephedra altissima Desf. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 216-219. 1930(Rec'd S.1931)

Giroux, M.
Note sur la carpologie de quelques chrysanthemées de l'Afrique du Nord. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 219-222. illus. 1930(Rec'd S. 1931)
C. grandiflorum, C. fuscatum, Chlamydophora tridentata.

Gravis, A.
Quelques considérations sur les plantes aphylles. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 410-414. 1929. (Rec'd S.1931)

Guillaume, A.
Variations de teneur en alcaloides dans les graines de lupin aux divers stades de la maturation. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 415-417. 1929(Rec'd S.1931)

Hédin, L.
Les caféiers spontanés au Cameroun. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 421-424. 1929 (Rec'd S.1931)

Compt. Rend. Assoc. Franç. Avanc. Sci. (cont.)

Humbert, H.
La végétation de la dorsale occidentale du Kivu (Afrique équatoriale). Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 223-226. 1930(Rec'd S.1931)

Kopp, A.
Orientation botanique de la selection de la canne à sucre. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 418-421. 1929(Rec'd S.1931)

Miège, E.
Observations sur l'enroulement des feuilles des céréales. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 227-228. 1930(Rec'd S.1931)

Monoyer, A.
Morphologie et écologie de Heleocharis palustris L. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 228-232. illus. 1930(Rec'd S.1931)

Monoyer, A.
Structure des faisceaux pétiolaires du Raphia. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 425-427. illus. 1929(Rec'd S.1931)

Nicolas, G.
Notes de tératologie végétale nord-africaine. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 232-235. 1930(Rec'd S.1931)

Russell, W.
Sur la présence de sclérites dans les folioles d'une légumineuse, césalpiniée. Compt. Rend. Assoc. Franç. Avanc. Sci. 53: 427-428. 1929(Rec'd S.1931)
Pterygopodium oxyphyllum.

Russell, W.
Sur la structure du péricarpe de Bauhinia malabarica. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 236-237. 1930(Rec'd S.1931)

Vandendries, R.
Ou en est le problème du sexe chez les hyménomycètes. Compt. Rend. Assoc. Franç. Avanc. Sci. 54: 237-243. 1930(Rec'd S.1931)

Contr. Dudley Herb. Stanford Univ.
Benson, G. T.
The trees and shrubs of western Oregon. Contr. Dudley Herb. Stanford Univ. 2. 170 p. map. 1930(Rec'd S.1931)

Deut. Landw. Presse. (Berlin)
Winkelmann, A.
Streifenkrankheit und blattfleckenkrankheiten der gerste. Deut. Landw. Presse 58: 482. Ag.29, 1931. no.35.

Ecol. Monogr. (Durham, N. C.)
Wells, B. W. & Skunk, I. V.
The vegetation and habitat factors of the coarser sands of the North Carolina coastal plain: an ecological study. Ecol. Monogr. 1: 465-520. illus. O.1931. no.4.

Farming South Africa (Pretoria)
Dippenaar, B. J.
Disinfecting seed potatoes against brown scab. Farming South Africa 6: 189-190. Ag.1931. no.65.

Doidge, E. M.
Sooty blotch in oranges. Farming South Africa 6: 173-174. illus. Ag.1931. no.65.

Moore, E. S.
Hints on combating tobacco diseases. (cont.) Farming South Africa 6: 185-187. illus. Ag.1931. no.65.

Neethling, J. H.
Can wheat degenerate? Farming South Africa 6: 183-184. Ag.1931. no.65.

Flor. Exch. (N.Y.)
Linz, C. V.
Phony peach disease hearing. Flor. Exch. 78(3): 33-34. S.19,1931.
Quarantine extension seems indicated though state officials disagree as to necessity. New test for malady perfected. Origin of name explained.

Forestry (Gt. Brit.) (London)

Day, W.R.
The relationship between frost damage and larch canker. Forestry (Gt. Brit.) 5: 41-56. illus., pl. iii-iv. Je.1931. no.1.

Sutherland, J. D.
Archibald Menzies, 1754-1842. Forestry (Gt. Brit.) 5: 5-8. Je.1931. no.1.

Forstarchiv. (Hanover)

Liese, J. & Albert, R.
"Zum kiefernsterben in nordwest-Deutschland". Zwei bemerkungen zu dem aufsatz von M. Trènel. Forstarchiv. 7: 333-334. 1931. no.17.
Comment on Trènel's "Beitrag zum keifernsterben &c." which he ascribes to Oedocephalum; Liese says Oedocephalum is imperfect form of Polyporus annosus.

Gard. Chron. (London)

Darlington, C.D.
The bearing of chromosome studies on plant breeding. Gard. Chron. III, 90; 192-193. illus. S.5, 1931. no.2332.

Electric light for propagating houses. Gard. Chron. III, 90: 205. S.12, 1931. no.2333.

Exell, A.W.
An interesting abnormality in Clematis jackmannii. Gard. Chron. III, 90: 197. illus. S.5, 1931. no.2332.

Friend, H.
Horticulture in relation to commerce.XIV.Essences and aromatics. Gard. Chron. III, 90: 194. S.5, 1931. no.2332.

Grove, A.
Lilium albanicum. Gard. Chron. III, 90: 214-216. illus. S.12, 1931. no.2333.

Lawrence, W.J.C.
The scented dahlia. Gard. Chron. III, 90: 211. illus. S.12, 1931. no.2333.
Dahlia coronata.

Redgrove, H. S.
Notes on gentians: native, economic and ornamental. Gard. Chron. III, 90: 194-196. S.5,1931. no.2332.

Gard. Chron. (cont.)

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 90: 213, illus. S.12, 1931. no.2333.

Gard. Illus. (London)

Forster, W. A.
Plants for mild seaside gardens. I. Three shelter trees. Gard. Illus. 53: 543. illus. S.5, 1931. no.2739.

Giuseppi, P. L.
Plant hunting in Serbia -- II. Krstac and Prenj. Gard. Illus. 53: 550-551. illus. S.5, 1931. no.2739.

Gartenfl. (Berlin)

Dageförde, E.
Unsere Erigeronsorten. Gartenfl. 80: 310-311. illus. S.1931.

Krause, K.
Zur kenntnis der Araceae Calloideae. Gartenfl. 80: 292-294. illus. S.1931.

Liebach, G.
Kulturwerte und seltene buntblattgewächse. II. Interessante Sansevieria-arten. Gartenfl. 80: 290-292. illus. S.1931.

Professor Dr. Rudolf Marloth. Gartenfl. 80: 318-320. port. S.1931.

Werdermann, E.
Gelbblühende echinopsen. Gartenfl. 80: 300-302. illus. S.1931.

House and Gard. (Greenwich, Conn.)

Mead, F. B.
Dwarf rock garden conifers. House and Gard. 60(4): 82-83, 114, 116. illus. O.1931.

Illus. Canad. For. & Outdoors.

Moore, H. J.
The practice of tree surgery. How to keep valued trees healthy and how to doctor them effectively. Illus. Canad. For. & Outdoors. 27(9): 25-27. illus. S.1931.

Intern. Bull. Plant Prot.

Liro, J. I.

Finland: Bacterium maculicolum. Intern. Bull. Plant Prot. 5: 141. Ag.1931. no.8.

Su, U. T.

India: Plant diseases in Burma. Intern. Bull. Plant Prot. 5: 141-142. Ag.1931. no.8.

Mosaic on chillies, sterility of pigeon pea.

Iowa State Coll. Journ. Sci. (Ames, Ia.)

David, P.A.

A study of crosses between trebi and three smooth-awned varieties of barley. Iowa State Coll. Journ. Sci. 5: 285-314. Jl.1931. no.4.

Melhus, I. E.

The presence of mycelium and oospores of certain downy mildews in the seeds of their hosts. Iowa State Coll. Journ. Sci. 5: 185-188. illus. Jl. 1931. no.4.

Peronospora alsinearum, P. viciae & Cystopus bliti.

Ital. Agr. (Milan)

Marchi, V.

Risultati di miglioramento genetico di alcuni vitigni di uva da tavola. Ital. Agr. 68: 530-539. illus., 2 col. pl. Ag.1931.

Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot.Stat.)

Andreev, N. I.

Iznabliudenii nad podsolnechnoi zarazikhoi v Donskom i Armavirksom okrugakh v 1927-28 g.g. (Aus der beobachtungen der Orobanche der sonnenblume des Don- und Armawir-gebiets in den jahren 1927 und 1928). Izv. Severo-Kazkas. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 173-184. 1930(Rec'd S.1931)

Russian with German summary.

Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) (cont.)

Balakhonov, P.I.
O gibeli tsveta plodovykh derev'ev na Chernomorskom poberezh'i v sviazi v tumanami (Ueber die beschädigung der obstbaumblüte und der küste des Schwarzen Meere im zusammenhang mit nebelwetter). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 169-172. 1930(Rec'd S.1931)
Russian.
Monilia cinerea, Cladosporium herbarum.

Kvashnina, E. S.
Bolezni tabaka v Sochinskom raione Chernomorsckogo okruga po nabliudeniiam 1929 g. (Tabakskrankheiten im Sotschiener rayon des Schwarzmeerkreises nach den beobachtungen im jahre 1929) Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 247-260. illus., fold.tab. 1930(Rec'd S.1931)
Russian with brief German summary.

Lebedeva, L. A.
O neskol'kikh formakh vysshei bazidnal'noi gribnoi flory stavropol'skikh stepei (Ueber einige formen der hoheren basidienpilz-flora der stawropoler steppen) Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas Plant Prot. Stat.) 6/7: 217-226. 1930(Rec'd S.1931)
Russian with German summary.

Lobik, A. I.
K voprosu o znachenii zernoochistitel'nykh mashin v rasprostranenii tverdoi golovni pshenitsy (Zur frage über die bedeutung der getreidereinigungsmaschinen bei der verbreitung des harten weizenbrandes). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 185-194. 1930(Rec'd S. 1931)
Russian with German summary.

Lobik, A. I.
Kornevoi rak prodovykh derev'ev na Severom Kavkaze (Der wurzelkrebs der obstbäume in Nordkaukasus). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 243-246. 1930(Rec'd S.1931)
Russian with brief German summary.

Izv.Sever-Kavkaz. Kraev. Stan. Zashch. Rast.(Bull. North Caucas. Plant Prot. Stat. (cont.)

Lobik, V. I.
O nakhozhdenii mokroĭ golovni Tilletia foetens (Berk. et Curt.) Trel. na pzhi (Secale cereale L.) (Ueber den befund des nassen kornbrandes Tilletia foetans (B. et C.) Trel. in roggen (Secale cereale L.) Izv. Severo-Kazkav. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 165-166. 1930(Rec'd S.1931)
Russian with German summary.

Lobik, V. I.
O rasprostranenii na Severnom Kavkaze lozhnoĭ muchnistoĭ rosy - Pseudoperonospora humuli na khmele (Ueber die verbreitung des Pseudoperonospora humuli auf dem hopfen im Nord Kaukasus) Izv. Severo-Kavkaz. Kraev. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 95-98. 1930(Rec'd S.1931)
Russian with German summary.

Lobik, V. I.
Vliianie opylivaniia seroĭ i opryskivaniia rastvorom mysh'iakovisto-kislogo natra na urozhai pshenitsy (Der einfluss der schwefelbestreuung und des besprengens mit liner losung arseniksaurem natrium zuf die weizener). Izv. Severo-Kazkav. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 163-164. 1930(Rec'd S.1931)
Russian with German summary.

Lobik, V. I.
Zarazhennost sortovykh ovsov pyl'noĭ golovnei Ustilago avenae (Pers.) Jens. na Tereke po nabliudeniiam za 1927 i 1929 g.g. (Die ansteckung des assortierten hafers mit dem staubigen kornbrand (Ustilago avenae) im Terek-bezirk nach den beobachtungen aus den jahren 1927, 1928 and 1929). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 167-168. 1930(Rec'd S.1931.)
Russian with German summary.

Obermeister, N. P.
Golovnia na Kubani, ee rasprostranenie, stepen zarazhennosti i vidovoi sostav po dannym obsledovaniia 1929 goda (Der kornbrand im Kubaner bezirk, seine verbreitung ansteckungsgrad und gattungsbestand nach den angaben der im jahre 1929 vorgenommenen beobachtungen). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 155-162. 1930. (Rec'd S.1931)
Russian with brief German summary.

Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat. (cont.)

Solov'ev, N. V.
Nabliudeniia nad bolezniami kartofelia v Terskom okruge v 1927-1928 g. (Beobachtungen über die erkrankungen der kartoffeln im Terekgebiet während der jahre 1927 u.1928). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 85-94. 1930(Rec'd S.1931)
Russian with brief German summary.

Vsorov, V. I.
Infektsionnaia riabukha tabaka (Nicotiana tabacum). (Infektioeser rost des tabaks (Nicotiana tabacum). Izv. Severo-Kavkaz. Kraev. Stan. Zashch. Rast. (Bull. North Caucas. Plant Prot. Stat.) 6/7: 261-272. pl. 1930(Rec'd S.1931)
Russian with German summary.
Phytomonas heterocea n.sp.

Japan. Jour. Bot. (Tokyo)

Nakatomi, S.
Hybridization between old world and new world cotton species and the chromosome behavior of the pollen mother-cells in the F_1-hybrid. Japan. Journ. Bot. 5: 371-383. illus., pl.vii-viii. Jl.31, 1931. no.4.

Okunuki, K.
Ueber die beeinflussung des wachstums der schimmelpilze durch die von rosahefen gebildeten stoffe. Japan. Journ. Bot. 5: 401-456. pl.ix. Jl.31, 1931. no.4.

Togashi, K.
Cardinal temperatures of pea-wilt Fusaria in culture. Japan. Journ. Bot. 5: 385-400. illus. Jl.31, 1931. no.4.

Journ. Agr. Res. (Washington, D.C.)

Henderson, R. G. & Wingard, S.A.
Further studies on tobacco ring spot in Virginia. Journ. Agr. Res. 43: 191-207. illus., 7 pl. on 4. Ag.1, 1931(Rec'd S.15) no.3.

Journ. Agr. Res. (cont.)

Martin, W.H., Brown, B.E. & Sprague, H.B.
The influence of nitrogen, phosphoric acid, and potash on the number, shape, and weight of potato tubers. Journ. Agr. Res. 43: 231-260. Ag.1, 1931(Rec'd S.15) no.3.

Neller, J. R.
Effect of chlorates upon the catalase activity of the roots of bindweed. Journ. Agr. Res. 43: 183-189. Jl.15, 1931(S.12) no.2.

Peltier, G. L.
Control equipment for the study of hardiness in crop plants. Journ. Agr. Res. 43: 177-182. illus. Jl.15, 1931(S.12) no.2.

Pettinger, N. A.
The expressed sap of corn plants as an indicator of nutrient needs. Journ. Agr. Res. 43: 95-119. 1 col.pl. Jl.15, 1931(S.12) no.2.

Reed, H. S. & Hirano, E.
The density of stomata in citrus leaves. Journ. Agr. Res. 43: 209-222. illus. Ag.1, 1931. (Rec'd S.15) no.3.

Spitzer, G. & Diehm, M. M.
Preliminary studies of the enzymes of Gibberella saubinetii. Journ. Agr. Res. 43: 223-229. Ag.1, 1931(Rec'd S.15) no.3.

Tottingham, W. E. & Moore, J. G.
Some phases of plant development under vitaglass. Journ. Agr. Res. 43: 133-163. illus. Jl.15, 1931 (Rec'd S.12) no.2.

Wolf, F. A,
Gray mold of tobacco. Journ. Agr. Res. 43: 165-175. illus. Jl.15, 1931(S.12) no.2.
Botrytis cinerea.

Journ. Amer. Soc. Agron. (Geneva, N.Y.)

Sayre, J.D., Morris, V.H. & Richey, F.D.
The effect of preventing fruiting and of reducing the leaf area on the accumulation of sugars in the corn stem. Journ. Amer. Soc. Agron. 23: 751-753. S.1931. no.9.

Journ. Amer.Soc. Agron. (cont.)

Ware, J.O.

Inheritance of seed weight and lint index related to hereditability of lint percentage in cotton. Journ. Amer. Soc. Agron. 23: 677-702. S.1931. no.9.

Willard, C. J.

The comparative protein content of alfalfa and red clover. Journ. Amer. Soc. Agron. 23: 754-756. S.1931. no.9.

Journ. Biochem. Tokyo.

Malhotra, R. C.

Biochemical investigation of mosaic in Solanum tuberosum. Journ. Biochem. Tokyo. 13: 473-487. Jl. 1931. no.3.

Journ. Biol. Chem. (Baltimore)

Jones, D.B. & Gersdorff, C.E.F.

Ipomoein, a globulin from sweet potatoes, Ipomoea batatas. Isolation of a secondary protein derived from ipomoein by enzymic action. Journ. Biol. Chem. 93: 119-126. S.1931. no.1.

Olcott, H. S. & Mattill, H. A.

The unsaponifiable lipids of lettuce II. Fractionation. III. Antioxidant. Journ. Biol. Chem. 93: 59-64, 65-70. S.1931. no.1.

Journ. Chem. Soc. London.

Callow, R.K.

Physiologically active constituents of the yew, Taxus baccata. I-II. I. Taxine.II. Ephedrine. Journ. Chem. Soc. London 1931: 2138-2148, 2148-2151 Ag.1931.

J.M. Gulland joint author I, main author II, C.J. Virden joint author I-II.

Journ. East Africa & Uganda Nat. Hist. Soc.

Le Pelley, R. H.

Introductory note on virus diseases of plants in Kenya. Journ. East Africa & Uganda Nat. Hist. Soc. 37(Ja.1931): 198-200. Jl.1931.

Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo.

Nagai, M.

Studies on the Japanese Saprolegniaceae. Journ. Fac. Agr. Hokkaido Imp. Univ. Sapporo 32: 1-43. pl.i-vii. Ag.1931. no.1.

Journ. Gen. Physiol. (Baltimore)
Tang, P.
Temperature characteristics for the production of CO_2 by germinating seeds of Lupinus albus and Zea mays. Journ. Gen. Physiol. 15: 87-95. S.20, 1931. no.1.

Journ.Indian Inst. Sci. (Madras)
Karmarkar, D.V. & Patwardhan, V.N.
Amylase from rice. Journ. Indian Inst. Sci. 14A: 47-50. diagr. 1931. no.4.

Patwardhan, V.N. & Karmarkar, D.V.
Dialysis of some cereal amylases. Journ. Indian Inst. Sci. 14A: 51-57. 1931. no.4.

Journ. Min. Agr.Gt. Brit. (London)
West, C.
The cold storage of apples. Journ. Min. Agr. Gt. Britain 38: 585-593. 2 pl. on 1. S.1931. no.6.

Journ. Pharm. & Chim. (Paris)
Bridel, M. & Laviolle, R.
La rebaudine de Dietrich est du stévioside impur. Journ. Pharm. & Chim. VIII, 14: 161-163. Ag.16, 1931. no.4.

Journ. Pharm. Soc. Japan.
Manusada, T.
Pharmakognostisch-botaniische untersuchung über die japanische droge "sho-ma". Journ. Pharm. Soc. Japan. 51: 86-87. 4 pl. (p.625-631). Ag. 1931. no.8(594)
Cimicfuga foetida intermedia, Astilbe spp.

Journ. Washington Acad. Sci.
Killip, E. P.
New plants mainly from western South America. III. Journ. Washington Acad. Sci. 21: 347-353. S.19, 1931. no.15.

Just. Liebigs Ann. Chem. (Berlin)
Kögl, F., Duisberg, H. & Erxleben, H.
Untersuchungen über pilzgifte I. Ueber das muscarin. Just. Liebigs Ann. Chem. 489: 156-192. illus. S.1931. no.2.

Just. Liebigs Ann. Chem. (cont.)
Walz, E.
Isoflavon-und saponin-glucoside in Soja hispida. Just.Liebigs Ann. Chem. 489: 118-155. illus. S.12,1931. no.2.

Kolloidchem. Beih.
Samec, M.
Studien uber pflanzenkolloide XXVIII-XXIX. Kolloidchem. Beih. 33: 254-268, 269-278. S.1,1931. no.5/8.
R.Klemen joint author XXVIII.
XXVIII. Eigenschaften verschiedener stärkearten. XXIX. Ueber die wanderungsgeschwindigkeit von stärkes-substanzen.

Medd. Centralanst. Forsksv. Jordbruksomr. Avd. Lantbrukskami (Stockholm)
Odén, S. & Sjöberg, K.
Amnesbildning och ämnesomsättning hos nagra kulturväxter. (Stoffbildung und stoffwechsel bei einigen kulturpflanzen). Medd. 386 Centralanst. Försksv. Jordbruksomr. Avd. Lantbrukskemi no.41. 56 p. illus. 1931.
German summary: p.53-54.

Mem. Coll. Sci. Kyoto Imp. Univ. Ser.B.
Takenouchi, Y.
Morphologische und entwicklungsmechanische untersuchungen bei japanischen bambus-ärten. Mem. Coll. Sci. Kyoto Imp. Univ. Ser. B. 6:109-160. illus., pl. xviii-xx. My.1931. no.3.
Gives list of scientific names with Japanese equivalents (transliterated).

Mem. Dept. Agr.India Bot. Ser.
Mahta, D. N. & Dave, B.B.
Studies in Cajanus indicus. Mem. Dept. Agr. India Bot.Ser. v.19, no.1. 25 p. 12 pl. on 7 (part.col.) My.1931(Rec'd S.)

Monatsschr. Deut. Kakteen-Ges. 'Berlin)
Bödeker, F.
Mamillaria blossfeldiana Böd., sp.n. Monatsschr. Deut. Kakteen-Ges. 3: 209-210. illus. S.1931. no.9.

Monatsschr. Deut. Kakteen-Ges. (cont.)
Rost, E.C.
Echinocactus platyacanthus Lk. et Otto.
Monatsschr. Deut. Kakteen-Ges. 3: 210-213.
illus. S.1931. no.9.

Nat. Nut News (Chicago)
Frank, A.
Some diseases of peanuts in the Everglades.
Nat. Nut News 14: 22-26. illus. S.1931. no.9.

Nature (London)
Rendle, A. B.
Dr. Richard Wettstein. Nature 182: 436-437.
S.12, 1931. no.3228.

Robinson, G.M. & Robinson, R.
Constitution of anthocyanins. Nature 128:
413. S.5, 1931. no.3227.

Northwest Science. (Cheney)
Putnam, H. N.
Spread and development of white pine blister rust
in the inland empire. Northwest Science 5:53-57,
58. S.1931. no.3.

Pflanzenbau (Berlin)
Aufhammer, G. & Pech, W.
Die behaarung der basalblattscheiden bei Hordeum
sativum Jess. Pflanzenbau 8: 49-61. illus. Ag.
1931. no.2.

Philipp. Agr. (Los Banos)
Garcia, M.B.
Weeds in rice paddies; germination of seeds and
resistance of the young plants to submergence in
water. Philipp. Agr. 20: 217-231. illus. Ag.
1931. no.3.

Juliano, J. B.
Morphological study of the flower of Monochoria
vaginalis (Burm.f.) Presl. Philipp. Agr. 20: 177-
186. illus., pl.i-ii. Ag.1931. no.3.

Ocfemia, G.
Save the abacá industry from ruin by bunchy-top,
Philipp. Agr. 20: 167-169. Ag.1931. no.3.

Philipp. Agr. (cont.)
Stevens, F. L. & Atienza, J. D.
Diseases of cultivated ginger. Philipp. Agr. 20: 171-176. illus. Ag.1931. no.3.
Leaf spot (Coniothyrium zingiberi n.sp.); black rhizome rot (Rosellinia zingiberi n.sp.), red rhizome rot (Nectriella zingiberi n.sp.-; Nectriella zingiberi var. pallida on rhizomes.

Philipp. Journ. Agr.
Agati, J. A.
Studies on the root-rot of the sugar-cane seedlings in the nursery. Philipp. Journ. Agr. 2: 1-26. v pl. 1931. no.1.

Elayda, A. & Morada, E. K.
Banana culture in the Philippines. Philipp. Agr. Journ. 2: 27-49. xxii pl. 1931.
Diseases: p.45-48.

Phil. Trans. Roy. Soc. London.
Walton, J.
Contributions to the knowledge of lower carboniferous plants. III. On the fossil-flora of the black limestones in Teilia quarry, Gwaenysgor, near Prestatyn, Flintshire, with special reference to Diplopteridium teilianum Kidston sp. (gen.nov.) and some other fern-like fronds. Phil. Trans. Roy. Soc. London B,219: 347-379. pl.23-26. 1931.

Proc. Imp. Acad. Tokyo.
Suginome, H. & Ueno, K.
Ueber die carotinoide von Cucurbita. I. Die pigments der frucht von Cucurbita maxima Duchesne. Proc. Imp. Acad. Tokyo 7: 251-253. Jl.1931. no.7.

Proc. Roy. Soc. Ser. B. (London)
Dixon, M.
The absorption spectrum of the component c of cytochrome. Proc. Roy. Soc. Ser. B 109: 29-34. S.1, 1931. no.760.

Progr. Agr. & Vitic. (Montpellier)
Ravaz, L.
Observations à faire sur le mildiou. Progr. Agr. & Vitic. 96: 225-228. S.6, 1931. no.36.

Protoplasma (Leipzig)

Stempell, W. & Romberg, G. v.
Ueber organismenstrahlung und orgamismengasung. Protoplasma. 13: 28-235. illus. Jl.1931. no.1.

Stiles, W. & Stirk, M.L.L.
Studies on toxic action. II. The toxicity of normal aliphatic alcohols towards potato tuber. Protoplasma 13: 1-20. Jl.1931. no.1.

Queensl. Agr. Journ. (Brisbane)

Mandelson, L. F.
Tobacco diseases. Queensl. Agr. Journ. 36: 213-233. pl.50-55. Ag.1, 1931. no.2.

Queensland. Bureau of sugar experiment stations.
Gumming disease in the Moreton district. Queensl. Agr. Journ. 36: 132-133. Ag.1, 1931. no.2.

Repert. Spec. Nov. Fedde. Sonder-Beih.

Werdemann, E.
Blühende sukkulentum. Repert. Spec. Nov. Fedde Sonder-Beih. C. lfg. 3. col.pl. 9-12. [1931]

Rep. Agr. Dept. St. Vincent.

St. Vincent. Agricultural Dept.
Work connected with insect and fungus pests and their control. In its Report 1930: 7-10. 1931.

Rep. Rothamsted Exp. Stat.

Glynne, M. D.
Observations on fungous diseases in crops on experimental plots at Rothamsted and Woburn May-September, 1930. Rep. Rothamsted Exp. Stat., 1930: 62-63. [1931]
On wheat, barley, rye & grasses.

Rothamsted experimental station.
Mycology. In its Rep. 1930: 57-59. [1931]
W.B. Brierley chief.

Rev. Gén. Bot. (Paris)

Davy de Virville, A. & Fischer-Piette, E.
La zone du Caloplaca marina. Rev. Gén. Bot. 43: 359-360. pl.20. Ag.1931. no.512.

V.13, no.19, p.31.

Rev. Gén. Bot. (cont.)
Hagene, P.
Recherches écologiques sur quelques groupements végétaux des environs de Dijon. (cont.) Rev. Gén. Bot. 43: 362-400. Ag.1931. no.512.

Science (Lancaster,Pa.)
Chittenden, R. H.
Plant sciences in the Sheffield scientific school. Science 74: 273-276. S.18, 1931. no.1916.

Science News Letter
New oil for paints promised by safflower. Science News Letter 20: 206. S.26, 1931. no.546.
Experiments with Carthamus tinctorius carried on by Frank Rabak,Bureau of Plant Industry, U.S. Department of Agriculture.

Scient. Month.(Lancaster,Pa.)
Couch, J.F.
Poison ivy and what to do about it. Scient. Month. 33: 359-362. O.1931. no.4.

Sci. Papers Inst. Phys. & Chem. Res. (Tokyo)
Sisido, Keitti
Zur kenntnis der ligninbildung im pflanzenkörper bei der verholzung. Sci. Papers Inst. Phys. & Chem. Res. 16: 136-139. S.1931.

So. African Gard. (Johannesburg)
Barnes, P. E. & Bolus, L.
Plants - new or noteworthy. (cont.) (Veltheimia deasii n.sp. So.African Gard. 21: 228, 234. illus. Ag. 1931. no.6.

Trans. Nat. Hist. Soc. Formosa.
Kanehira, R.
New species, varieties and combinations of Formosan trees from the Taihoku herbarium II. Trans. Nat. Hist. Soc. Formosa 21: 145-147. Je. 1931. no.114.
Podocarpus nagi Koshunensis var. nov., Drypetes yamadai, Ligustrum microcarpum, L. morrisonensis n.spp.

Kurisawa, E.
Effect of temperature and medium upon the overgrowth phenomenon of rice seedlings related to the excretion of the cultures of Lisea fujikuroi Saw. Trans. Nat. Hist. Soc. Formosa 21: 159-181. Je. 1931. no.114.
In Japanese.

Trans. Nat. Hist. Soc. Formosa (cont.)

Sasaki, S.
Miscellaneous contributions to the flora of Formosa IX. Trans. Nat. Hist. Soc. Formosa 21: 147-156. illus. Je.1931. no.114.

Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci.

Fukushi, T. & Saito, H.
Angular leaf spot of Zinnia elegans Jacq. caused by eelworms (preliminary report.) Trans. (Tottori Nogaki-Kwaho) Tottori Soc. Agr. Sci. 2: 45-56. 1 pl. Ag.25, 1930(Rec'd Jl.1931) no.1.
Aphelenchus ritzema-bosi.

Hiratsuka, N. & Kotani, H.
Notes on some species of Claviceps collected in Hokkaido, Saghalien and the Kuriles. Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci. 2: 57-60. Ag.25, 1930(Rec'd Jl.1931) no.1.
Japanese.

Hiratsuka, N.
On some Japanese species of the Melampsoraceae I. Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci. 2: 61-63. Ag.25, 1930(Rec'd Jl.1931) no.1.

Matsuura, I.
Experimental studies on the saltation in fungi (Preliminary report) I. On the saltation of Ophiobolus miyabeanus Ito et Kuribayashi parasitic on rice plant. Trans.(Tottori Nog-ki-Kwaiho) Tottori Soc. Agr. Sci. 2: 64-82. pl. Ag.25, 1930(Rec'd Jl.1931)

Matsuura, I.
Notes on larger fungi of the Sanin district. I. Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci. 2: 135-139. pl. Ag.25,1930(Rec'd Jl.1931) no.1.

Namikawa, I.
On the chromosomes of the persimmon. Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci. 2: 145-148. Ag.25, 1930(Rec'd Jl.1931) no.1.
Japanese.

Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci. (cont.)
Tanaka, S. & Endo, S.
Studies on a new canker disease of Japanese pear trees caused by Phomopsis fukushi n.sp. Trans. (Tottori Nogaki-Kwaiho) Tottori Soc. Agr. Sci. 2: 123-134. pl. i-ii. Ag.25, 1930(Rec'd Jl.1931) no.1.

Trop. Agr. (Ceylon) (Peradeniya)
Wardlaw, C. W.
Banana diseases. I. Observations on Botryodiplodia fruit rot of the banana. [B. theobromae]. Trop. Agr. 8: 227-230. 2 pl. on 1. S.1931. no.9.

Trudy Sredne-Aziat. Gosud. Univ.(Acta Univ. Asiae Med.) (Tashkent)
Raikova, H.
Rastitel'nye landshafty Pamira (The vegetative landscapes of the Pamir). Trudy Sredne-Aziat. Gosud. Univ. (Acta Univ. Asiae Med.) ser.VIII-b, Bot. Fasc. 12. 24p. illus. 1930(Rec'd Ap.1931)

Trudy Ukrains.Inst. Prikl. Bot.(Arb. Ukrainisch. Inst. Angew. Bot.) (Charkiv)
Bulgakova, Z., Hiubbenet, E. & Liubimenko, V.
Fiziologichni doslidzhennia nad tsukrovim buriakom (Physiologische studien an der zuckerrübe V) Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot.) 1: 213-233. illus. 1930(Rec'd Jl.1931)
Ukrainian with French summary.

Druzenko, E.
Kombinovanii bpliv riznoi napruzhenosti svitla i vogkosti gruntu na rozvitok i vrozhai dvokh rasiachmeniu (Action de différentes intensités lumineuses combinées à différente gardes de l'humidité du sol sur le développement et la fructifications de deux variétés de l'orge). Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot.) 1: 74-97. illus. 1930(Rec'd Jl.1931)
Ukrainian with French summary.

Kokin, A. I.
Fiziologichni doslidzhennia nad tsukrovim buriakom (Der einfluss des verkürzten tages und der mechanischen verringerung der blätterzahl auf die aufspeicherung von zucker in den wurzeln der zuckerrübe). Trudy Ukrains. Inst. Prikl. Bot.(Arb. Ukrainisch. Inst. Angew. Bot.) 1: 122-140,141-155. 1930(Rec'd Jl.1931)
Ukrainian with German summary.

Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot. (cont.)

Gavrilova, L., Eidel'man, Z. & Liubimenko, V.
Do pitannia pro popil'ne zhivlennia bavovnika (Influence de différentes doses de phosphore et de potassium sur la croissance et le développement du cotonnier). Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot.) 1: 235-255. illus. 1930(Rec'd Jl.1931)
Ukrainian with French summary.

Kuz'menko, A. A.
Fiziologicheskaia kharakteristika nekotorykh sortov pshenitsy (Physiologische charakteristik der weizensorten) Trudy Ukrains. Inst.Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot.) 1: 62-70. 1930 (Rec'd Jl.1931)
Russian with German summary.

Liubimenko, V.
Chergovi zavdannia prikladnoi fiziologii roslin (Die nächsten und wichtigsten aufgaben der angewandten pflanzenphysiologie). Trudy Ukrains. Inst. Prikl. Bot.(Arb. Ukrainsch. Inst. Angew. Bot.) 1: 3-54. illus., pl. 1930(Rec'd Jl.1931)
Ukrainian.

Liubimenko, V., Ginzburg, G. & Smajenok, E.
Do pitannia pro fiziologichni ymovi utvorennia i nakupchennia atropinu (Contribution à la physiologie de la formation et l'accumulation de l'atropine dans les feuilles de l'Atropa belladonna). Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot.) 1: 289-305. 1930(Rec'd Jl.1931)
Ukrainian with French summary.

Liubimenko, V.
Do pitannia pro fiziologichni ymovi utvorennia eterovikh olii u zapashnikh roslin (Recherches sur la physiologie de la formation des huiles essentiales chez les plantes odorantes) Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew Bot.) 1: 257-288. 1930(Rec'd Jl.1931)
Ukrainian with French summary.

Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot. (cont.)

Liubimenko, V., Druzenko, E. & Serebriansʼka, V.
Pro znachinnia listokovikh pilkhovok u koloskovtsiv, iak organiv, shcho asimiliuiut, v protsesi fotosintezi ta nakupchennia sukhoi rechivini (Ueber die bedeutung der blattscheiden bei der getreidepflanzen als der assimilationsorgane im prozess der photosynthese und bei der aufspeicherung von trockenem stoff). Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst. Angew. Bot.) 1: 98-111. 1930(Rec'd Jl.1931)
Ukrainian with German summary.

Matskov, F.
Fiziologischni doslidzhennia nad tsukrovim buriakom III-IV. (Physiologische studien an der zuckerrube III-IV. Trudy Ukrains. Inst. Prikl. Bot. (Arb. Ukrainisch. Inst.Angew. Bot.) 1: 156-190, 191-211. illus. 1930(Rec'd Jl.1931)
Ukrainian with German summaries.
III. Materialien zur frage von den physiologischen grenzen der zuckeransammlungen in dem wurzlen der zuckerrübe. IV. Der einfluss einer periodischen künstlichen beleuchtung auf die arbeit des assimilations- und einsimatischen apparats der zuckerrube.

United States Daily.

Brandes, E. W.
How Federal agency aids Lousiana growers. Successful efforts to discover variety of sugar cane that will resist disease, described. United States Daily 6(146): 8. Ag.22, 1931.

Brandes, E. W.
Protecting sugar crops from prevalent diseases. Efforts of Agricultural Department to develop sugarbeet plants which will resist "curlytop". United States Daily 6(145): 10. Ag.21, 1931.

U.S. Dept. Agr. Circ.

Cooley, J. C. & Cronshaw, J.H.
Control of Botrytis rot of pears with chemically treated wrappers. U.S. Dept. Agr. Circ. 117. 9 p. illus. Ag.1931.

U.S. Dept. Agr. Off. Rec.
Tiemann, H. D.
What are the largest trees in the world?
U.S. Dept. Agr. Off. Rec. 10: 287-288. S.19, 1931. no.38.
Redwood, eucalyptus, cypress, Douglas fir, and Kauri top the list of great trees. Accurate information on trunk dimensions is lacking.

U.S. Dept. Agr. Techn. Bull.
Fisher, D.F. & Reeves, E.L.
Arsenical and other fruit injuries of apples resulting from washing operations. U.S. Dept. Agr. Techn. Bull. 245. 12 p. 3 pl. (2 col.) Je.1931 (Rec'd S.)

Visnik Prikl. Bot.(Zeitschr. Angew. Bot.) (Charkiv)
Prikhod'ko, M. & Farfel, R.
Pro viniknennia "pantsernogo" sharu ta pro kil'kisne viznachennia iogo v ovochakh soiashnika (Helianthus L.) (Ueber die bildung der panzerschicht in den früchten der sonnenblume und ihre quantitative bestimmung). Visnik Prikl. Bot. (Zeitschr. Angew. Bot.) 1930: 60-68. illus.(Rec'd Je.1931) no.1.
Ukrainian with German summary.

Rons'kii, M.
Materiali do piznannia ukrains'kikh vidminkhiv Nicotiana rustica L. (II. Nicotiana rustica grex chlorotica R.) (Materialien zur erkennung der ukrainischen varietäten der Nicotiana rustica
Visnik. Prikl. Bot.(Zeitschr. Angew. Bot.) 1930: 42-52. (Rec'd Je.1931) no.1.
Ukrainian with German summary.

West. Homes & Gard.
Leonian, L. H.
Symptoms of bacterial rot of delphiniums.
West. Homes & Gard. 15(9): 14. S.1931.

Zeitschr. Parasitenk.
Stapp, C. & Bortels, H.
Der pflanzenkrebs und sein erreger, Pseudomonas tumefaciens. I. Konstitution und tumorbildung der wirtspflanze. Zeitschr. Parasitenk. 3: 654-663. illus. Ag.28,1931. no.4.

Zeitschr. Indukt. Abstamm. u. Vererbungsl. (Leipzig)

Correns, C.
Ueber einige fälle von buntblättrigkeit. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 274-280. 1931. no.2/3.

Euler, H. v., Forssberg, A., Runehjelm, D. & Hellström, H.
Zur chemischen charakterisierung von erblichen chlorophylldefekten. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 131-152. 1931. no.2/3.
Barley mutant of Albinia type.

Hiorth, G.
Genetische versuche mit Collinsia. II. Die blatt- und kotyledonenzeichnungen von Collinsia bicolor. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 236-269. illus. 1931. no.2/3.

Mol, W. E. de.
Somatische variation der blumenfarbe der hyazinthe durch röntgenbestrahlung und andere äussere umstände. Teilungsretardation und -acceleration als diversitätsursache. Zeitsc r. Indukt. Abstamm. u. Vererbungsl. 59: 280-283. 1931. no.2/3.

Zeitschr. Pilzk. (Leipzig)

Huber, H.
Die wichtigsten korallenpilze. Zeitschr. Pilzk. 15(n.s.10): 109-112. Ag.30,1931. no4.
Ramaria.

Kallenbach, F.
Sandpilze unserer deutschen binnendünen. (cont.) Zeitschr. Pilzk. 15(n.s.10): 106-107. Ag.30, 1931. no4.
4. Die dünen-stinkmorchel (Phallus atrenarius nom.nov.)

Prichäusser, G.
Ueber den zunderschwamm (Polyporus fomentarius) Zeitschr. Pilzk. 15(n.s.10): 115-119. Ag.30, 1931. no.4.

Schäffer, J.
Die täublingsspore. (concl.) Zeitschr. Pilzk. 15(n.s.10): 103-105. Ag.30, 1931. no.4.

Zeitschr. Pilzk. (cont.)
Schnegg, H.
Lactarius torminosus, der birkenreizker. Zeitschr. Pilzk. 15(n.s.10): 119-121. Ag.30, 1931. no.4.

Soehner, E.
Der Münchner karbolheidechampignon - Psalliota meleagris Schff.? (concl.) Zeitschr. Pilzk. 15(n.s.10): 99-103. Ag.30, 1931. no.4.

Zeitschr. Vergl. Phys. (Zeitschr.Wiss. Biol. abt.C.)
Luntz, A.
Untersuchungen über die phototaxis. I. Die absoluten schwellenwerte und die relative wirksamkeit von spektrakfarben bei grünen und farblosen einzelligen. Zeitschr. Vergl. Phys. 14: 68-92. My.21,1931. no.1.
Experiments with Eudorina elegans, Volvox minor, Chilomonas, Chlamydomonas.

Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie)
Aliavdina, A. A.
Znachenie anatomii plodov i semian dlia sistematiki semeistva Cruciferae (Bedeutung der anatomie der frucht und des samens für die systematik der familie Cruciferae). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 85-100. illus. 1931.
Russian with German summary.

Igoshina, K. N.
Vysokogornaia rastitel'nost srednego Urala (Die alpine vegetation des mittleren Urals). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 3-69. illus. 1931. no.1.
Russian with German summary.

Kalitin, N. N.
Metodika izmerenii otrazheniia i propuskaniia solnechnoi luchistoi energii list'iami rastenii (Sur la determination des pouvoirs absorbants et diffusifs des feuilles). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 101-110. 1931. no.1.
Russian with French summary.

Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) (cont.)

Leskov, A. I.

Novye vidy kavkazskoi flory (Species novae florae caucasicae). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 70-76. illus. 1931. no. 1.

Russian with Latin diagnoses (Carex medwedewi, C. albowi, Oxytropis kubanensis, n.spp., Carex paniculata var. caucasica n.var.

Shishkin, B. K.

Novyi vid roda Melandryum Roehl (Species nova generis Melandryum Roehl.) Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 83-84. illus. 1931. no.1.

Russian with Latin diagnosis (M. soczavaeanum)

Sochava, V. B.

Nekotorye osnovnye poniatiia i terminy tundrovedeniia (Einige grundbegriffe und fachwörter der tundrologie). Zhurn. Russk. Bot. Obshch.(Journ. Soc. Bot. Russie) 16: 125-135. 1931. no.1.

Russian with German summary.

Tolmachev, A. I.

K metodike cravnitel'no-floristicheskikh isslodovanii (Ueber die methode der vergleichend-floristischen forschungen) Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 111-124. 1931. no.1.

Russian with German summary.

Tolmachev, A.I.

Tri novykh sibirskikh vida r. Papaver (Drei neue sibirische Papaver-arten) Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 77-82. illus. 1931. no.1.

Russian with Latin diagnosis (P.canescens, P. stubendorfii, P. ochotense)

Der Züchter (Berlin)

Saulescu, N.

Die bedeutung deutscher zuchtsorten in Rumanien. Der Zuchter 3: 253-264. Ag.1931. no.8.

Exper. Stat. Publ.

Doran, W. L.
Increasing soil acidity as a means of controlling black root-rot of tobacco. Mass. Agr. Exp. Stat. Bull. 276: 118-146. ills. Je.1931.(Rec'd S.)

Nebraska. Agricultural experiment station.
Plant diseases. In its Ann. Rep. 44(1928/30): 33-35. 1931.
G.L. Peltier chief.

Werner, H. O.
The effect of maturity and the ethylene chlorhydrin seed treatment on the dormancy of triumph potatoes. Nebraska Agr. Exp. Stat. Res. Bull. 57. 39 p. illus. Ag.1931.

Tilford, P. E.
Control of "damping-off" of flower seedlings. Ohio Agr. Exp. Stat. Bimonth. Bull.152: 167-175. illus. S./O.1931.
Semesan not a satisfactory control; mixing formaldehyde dust in soil, an effective and simple control.

Texas Agricultural experiment station.
Plant pathology and physiology. In its Ann. Rep. 43(1930): 56-67. 1931.
J.J. Taubenhaus chief.

Hurt, R. H.
The waste sulphite material of paper mills as an adjuvant to certain spray materials. Virginia Agr. Exp. Stat. Bull. 277. 10 p. F.1931.
Trade names of lignin material,pitch materials: Goulac, glutrin, bandarene flour & liquid, bindex flour & liquid, waste sulphite liquor.

State Publications.

Butterfield, H. M.
Home floriculture in California. Calif. Agr. Ext. Serv. Circ. 53. 155 p. illus. Je.1931. (Rec'd S.)

New Books.

Backer, C. A.
Onkruidflora der Javasche suikerrietgronden. afl. 3. (blz. 473-820) [1931] (Handboek ten dienste van de suikerriet-cultuure en de rietsuiker-fabricage op Java 7. deel).

Bonnet, G.
Flore complète illustrée en couleurs de France... Suisse et Belgique... 11. t. par. R. Douin. fasc. 108. pl.643-648. [1931]

Delevoy, G.
Etudes systématiques de bois du Katanga. no.4-6. Bruxelles, 1930-31.

Harned, J. E.
Wild flowers of the Alleghanies. Oakland, Md., The author, 1931.

Hitchcock, A.S.
Field work for the local botanist. Washington, D.C., The author,1931.

Hulme, F.E.
Wild fruits of the country-side. London, Hutchinson and Co., [1930]

Imperial bureau of plant genetics - School of agriculture.
Barley breeding bibliography. Cambridge, Engl., 1930.
Mimeographed.

Imperial bureau of plant genetics - School of agriculture.
Lodging in cereals. Cambridge, Engl., [1931]
Mimeographed.

Imperial bureau of plant genetics - School of agriculture.
Oat breeding bibliography. Cambridge, Engl., [1931]
Mimeographed.

Imperial bureau of plant genetics - School of agriculture.
Rice breeding bibliography. Cambridge, Engl., [1931]
Mimeographed.

New Books (cont.)

Kaul, L. & Riedle, A.
Die rolle der atomenergie bei der ernährung von tier und pflanze... Freising-München, F.P. Datterer & Cie., 1931.

Kemp, J. A.
Gladiolus breeding, a practical treatise. N.Y., A.T. DeLaMare Co., 1931.

Kobel, F.
Lehrbuch des obstbaus auf physiologischer grundlage. Berlin, J. Springer, 1931.

Korschelt, E.
Regeneration und transplantation. 2. bd. Transplantation unter berücksichtigung der explantation, pflanzenpfropfung und parabiose. Berlin, Borntraeger, 1931.

McKinley, E. B.
The bacteriophage. In his Filterable virus and rickettsia diseases. Manila, 1929. p.368-380.

McKinley, E. B.
Filterable virus diseases of plants. In his Filterable virus and rickettsia diseases. Manila, 1929. p.344-367. pl.44-51.

Magalon, M.
Contribution à l'étude des palmiers de l' Indochine francaise. Paris, Les presses modernes, 1930.

Matthews, V. D.
Studies on the genus Pythium. Chapel Hill, University of North Carolina press, 1931.

Sanders, St.A.
Orchid hybrids, Sander's complete list. 2d. vol. 1929-30. St.Albans, 1931.

Wehmer, G.
Die pflanzenstoffe... 2., neubearb. und verm. aufl. v.2, Jena, G. Fischer, 1931.

Translations filed in Library, of Bureau of Plant Industry.

Archimovitsch, A. S.
Die methodik der isolation und bastardierung bei der zuckerrübe (On the methodology of isolated and hybridizing sugar beets). Zeitschr. Zücht. A. Pflanzenzucht. 15:357-365. N.1930.

Hara, S.
The influence of untimely cold weather on the development of grain and the yield in rice. Ann. Agr. Exp. Stat. Gov.-gen. Chosen 5: 161-167. 1930.
Original in Japanese, English transl. in B.P.I.

Correction.

V.13, no.16, p.24.
Under Obst- u. Gemüseb. Hasse, F., should be Haase, F.

V.13, no.13, p. 34.
Under Trans. Nat. Hist. Soc. Formosa the vol. number should be 21.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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LIBRARY
RECEIVED
★ OCT 26 1931 ★
U. S. Department of Agriculture

Vol. 13, no. 20. Sept.28-Oct.10,1931.

Adv. Leafl. Min. Agr. Gt. Brit.

Gt.Britain. Ministry of agriculture and fisheries. Docks and sorrels. Its Adv. Leafl. no.46. 4 p. illus. Je.1931.

Gt. Britain. Ministry of agriculture and fisheries. Thistles in grass land. Its Adv. Leafl. no. 50. 6 p. illus. Je.1931.

Gt.Britain. Ministry of agriculture and fisheries. Thistles on arable land. Its. Adv. Leafl. no. 51. 6 p. illus. Jl.1931.

Gt.Britain. Ministry of agriculture and fisheries. Tomato wilt, or sleepy disease. Its Adv. Leafl. no.53. 4 p. My.1931.

Agr. Puertorriquenu. (San Juan)

Morel, M.
Sobre café. Agr. Puertorriqu. 11(17): 9-10, 22. illus. S.15, 1931.
Cyclone injury.

Agric. Colon. (Firenze)

Galletti, A. C.
Ricerche chimico-agrarie sulle così dette alghe marine, con particolare riguardo al loro impiego in agricultura. Agric. Colon. 25: 423-434. S.1931. no.9.

Amer. Journ. Sci. (New Haven, Conn.)

Holm, T.
Epharmonic characters of Larrea mexicana Moric. Amer. Journ. Sci. V,22: 269-280. illus. S.1931. no.129.

Amer. Midl. Nat. (Notre Dame, Ind.)

Bush, B. F.
Shepard's Greene County flora. An unpublished list of plants of Greene County, Missouri, by Prof. Edward M. Shepard, Springfield, Missouri. Amer. Midl. Nat. 12: 488-498. S.1931. no.11.

Amer. Midl. Nat. (cont.)

Siler, M. B.
The transition from root to stem in Helianthus annuus L. and Arctium minus Bernh. Amer. Midl. Nat. 12: 425-487, incl. pl. i-xi. S.1931. no.11.

Ann. Crypt. Exot. (Paris)

Potier de la Varde, R.
Etudes préliminaires de quelques espèces africaines du genre Fissidens. II. Ann. Crypt. Exot. 4: 1-52. illus. Jl.1931. no.1.

Ann. Univ. Stellenbosch. (Capetown)

Verwoerd, L.
Die besmettingsvermoë van die teleuto-stadium van Puccinia gramminis Pers. in Suid-Afrika. Ann. Univ. Stellenbosch v.9,A, no.2. 8 p. Ag. 1931. no.2.
English summary: p.[7]

Arch. Mikrobiol. (Berlin)

Bergdolt, E.
Ueber das spiralwachstum von Oidium lactis. Ein beitrag zur kenntnis der entwicklungsmechanik der pilze. Arch. Mikrobiol. 2: 591-600. illus. Jl.25, 1931. no.4.

Gistl, R.
Wasserstoffionenkonzentration und desmidiaceen. im Kirchseegebiet. Arch. Mikrobiol. 2: 23-39. illus. F.7, 1931. no.1.

Kroemer, K.
Untersuchungen über osmophile sprosspilze. I-III. Arch. Mikrobiol. 2: 352-410, 411-492, 601-619. illus. Je.20, Jl.25, 1931. no.3, 4.
G. Krumbholz joint author I, sole author, II,III.
I. Beiträge zur kenntnis der gärungsvorgänge und der gärungserreger der trockenbeerenauslesen. II. Beiträge zur kenntnis der gattung Zygosaccharomyces. III. Ueber einige kleinzellige saccharomyceten.

Rippel, K.
Quantitative untersuchungen über die abhängigkeit der stickstoffassimilation von der wasserstoffionenkonzentration bei einigen pilzen. Arch. Mikrobiol. 2: 72-135. illus. F.7, 1931. no.1.

Tempel, E.
Untersuchungen über die variabilität der actinomyceten. Arch. Mikrobiol. 2: 40-71. F.7, 1931. no.1.

Arch. Mikrobiol. (cont.)

Waksman, S. A.
Decomposition of the various chemical constituents etc. of complex plant materials by pure cultures of fungi and bacteria. Arch. Mikrobiol. 2: 136-154. illus. F.7, 1931. no.1.

Arch. Rubbercult. Nederl.-Ind. (Batavia, Java)

Bobilioff, W.
Kleurreacties van latex als identificatiekenmerken van Hevea-cloonen. (Colour-reactions of latex as a mark of identification of Hevea clones). Arch. Rubbercult. Nederl.-Ind. 15: 289-308. illus., i pl. Jl.1931. no.7.
English summary.

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat.(Roma)

Airoldi, M.
Di alcune corallinacee fossili delle Canarie. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 13: 439-442, 532-535. illus. Mr.15, Ap.12, 1931. no.6,7.

Perotti, R.
Per la lotta contro la "stretta" dei cereali. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis. Mat. e Nat. 13: 547-549. 1 pl. Ap.12, 1931. no.7.

Tonon, A.
Sulla struttura delle gemme del gelso e del loro sviluppo II. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis. Mat. e Nat. 13: 442-448, 541-547. Mr.15, Ap.12, 1931. no.6,7.

Bergcultures (Batavia, Java)

Tengwell, T. A.
Topinsterving bij oculatie-uitloopers. Bergcultures 5: 916-917. illus. Ag.22, 1931. no.34.

Ultée, A. J.
Bij het vertrek van Dr. W.Bally. Bergcultures 5: 945-947. port. Ag.29,1931. no.35.

Biochem. Zeitschr. (Berlin)

Boysen-Jensen, P.
Ueber bildung eines wachstumsregulators durch Aspergillus niger. Biochem. Zeitschr. 239: 243-249. S.17, 1931. no.4/6.

Biull. Gosud. Nikitsk. Opytn. Bot. Sad.(Bull. Gov. Bot. Gard. Nikita) (Ialta)

Masalab, N.A. & Yuganova, O. N.
Opyt lecheniia mychinstoĭ rosy na roze i iablone (Experiments of controlling mildew on the rose and the apple tree). Biull. Gosud. Nikitsk. Opytn. Bot. Sada (Bull. Gov. Bot. Gard. Nikita) 10. 20 p. 1931.
Russian with English summary.

Boll. Soc. Ital. Biol. Sper. (Napoli)

Montemartini, L.
Soggetti ipereccitabili nelle piante. Boll. Soc. Ital. Biol. Sper. 6: 586-587. 1931. no.6.

Bot. Mag. Tokyo.

Hayata, B.
On some other systems bearing a more or less resemblance to the dynamic system. Bot. Mag. Tokyo 45: 364-368. Jl. 1931. no. 535.
In Japanese.

Ito, H.
On the distribution of ferns in the southern part of Japan proper. Bot. Mag. Tokyo 45: 390-404. illus. Ag. 1931. no.535.
In Japanese with English summary: p.404.

Kanehira, R.
An enumeration of the woody plants collected in Micronesia, Japanese Mandate (in 1920 and 1930). Bot. Mag. Tokyo 45: 327-352. Jl.1931. no.535.

Nakano, H.
Fundamental units in plant sociology. Bot. Mag. Tokyo 45: 405-407. Ag. 1931. no.536.
In Japanese.

Ohwi, J.
Symbolae ad floram Asiae orientalis III. Bot. Mag. Tokyo 45: 377-389. illus. Ag.1931. no.536.

Shimotamai, N.
Ueber die abnorme reduktionsteilung in P.M.Z., die einen riesigen kern oder überzählige zwergkerne enthalten. Bot. Mag. Tokyo 45: 356-363. illus. Jl. 1931. no.535.
In Japanese with German summary: p.363.
Chrysanthemum ornatum.

Bot. Mag. Tokyo (cont.)
Sugiura, T.
A list of chromosome numbers in angiospermous plants. Bot. Mag.Tokyo 45: 353-355. Jl. 1931. no.535.

Bull. Dept. Agr. Mauritius.
Shepherd, E. F. S.
Diseases of sugar cane in Mauritius. Rev. ed. Bull. Dept. Agr. Mauritius 41. 27 p. 14 pl. 1931.

Bull. Georgia For. Serv.
Elliott, C. N.
Key to Georgia trees. Bull. Georgia For. Serv. 13. 54, xvi p. F.1931.

Bull. Imp. Bur. Plant Gen. (Herb. Plants.) (Wales)
Jenkin, T. J.
The method and technique of selection, breeding and strain-building in grasses. Bull. Imp. Bur. Plant Gen. (Gerb. Plants) 3: 5-34. Je. 1931.

Stapledon, R. G.
Methods as applied to cocksfoot grass (Dactylis glomerata L.) and remarks as to technique in general. Bull. Imp. Bur. Plant Gen. (Herb. Plants) 3: 35-45. Je. 1931.

Williams, R. D.
Methods and technique of breeding red clover, white clover, and lucerne. Bull. Imp. Bur. Plant Gen. (Herb. Plants) 3: 46-77. pl. i-iii. Je.1931.

Bull. Min. Agr. Gt. Brit.
Gt. Brit. Ministery of agriculture and fisheries.
Cereal smuts and their control. Its Bull. 24. 16 p. 4 pl. on 2. D.1930.

Gt. Brit. Ministery of agriculture and fisheries.
Edible and poisonous fungi. Its Bull. 23. 26 p. 25 col.pl. 1930.
Formerly Miscl. Publ. 54.

Stirrup, H. H. & Ewan, J. W.
Investigations on celery diseases and their control Bull. Min. Agr. Gt. Brit. 25. 34 p. illus., 5 pl. F.1931.

Bull. Chem. Soc. Japan.
Suginome, H. & Ueno, K.
Ueber die carotinoide von Cucurbita. I. Die pigments der frucht von Cucurbita maxima, Duch. Bull. Chem. Soc. Japan 6: 221-228. Ag.1931. no.8.

[Bull.] Gosudarstv. Inst. Tabak. (Bull. State Inst. Tobacco Invest.) Krasnodar.
Palamarchuk, A. I. & Guba, F. P.
Materialy po anatomicheskoi kharakterisrike raznykh sortov i ras tabaka: yst'ichnyi apparat (Materials for the anatomical characteristics of different sorts and races of tobacco: a stomatal apparatus). [Bull.] Gosudarstv. Inst. Tabak. (Bull. State Inst. Tobacco Invest.) Krasnodar. 76: 44 p. plates. 1931.
Russian with English summary.

Bull. Soc. Amis et Anc. Eléves Ecole Nat. Eaux. et For.
Guinier, P.
Les maladies des arbres et les altérations des bois d'origine cryptogamique au point de vue forestier. Bull. Soc. Amis et Anc. Eléves Ecole Nat. Eaux et For. no.9. 30 p. v. pl. Ja.1930(Rec'd S.1931)

China Journ. (Shanghai)
Sowerby, A. de C.
The romance of cinchona. China Journ. 15: 140-144. 1 pl. S.1931. no.3.

Bull. Soc. Centr. For. Belgique. (Bruxelles)
Quairière, C. J.
A propos d'une maladie des jeunes plants de peuplier du Canada. Bull. Soc. Centr. For. Belgique 38: 391-397. S.1931. no.9.
Dothichiza populea.

Bull. Torr. Club.
Cooper, W. S. & Stoesz, A. D.
The subterranean organs of Helianthus scaberrimus. Bull. Torr. Club 58: 67-72. illus. F.1931. (Rec'd O.) no.2.

Gleason, H. A.
The relationships of certain myrmecophilous melastomes. Bull. Torr. Club 58: 73-85. F. 1931(Rec'd O.) no.2.
Maieta and Clidemia (C. pubescens, spectabilis foliosa, n.spp.)

Bull. Torr. Club. (cont.)

Smith, A. C.

Studies of South American plants. I. New or noteworthy plants from Peru and Amazonian Brazil. Bull. Torr. Club 58: 87-110. O.1931. no.2.

Describes many new species and one new genus, Synandropus, S. membranaceous.

Canad. Field Nat. (Ottawa)

Lewis, H. F.

An annotated list of vascular plants collected on the North shore of the Gulf of St.Lawrence, 1927-1930. (cont.) Canad. Field Nat. 45: 174-179. O.1931. no.7.

Canad. Journ. Res. (Ottawa)

Kirk, L.E. & Stevenson, T.M.

Factors which influence spontaneous self-fertilization in sweet clover (Melilotus). Canad. Journ. Res. 5: 313-326. 1 pl. S.1931. no.3.

Newton, R., Brown, W. R., & Anderson, J. A.

Chemical changes in nitrogen fractions of plant juice on exposure to frost. Canad. Journ. Res. 5: 327-332. S.1931. no.3.

Experiments with wheat.

Newton, R. & Anderson, J. A.

Respiration of winter wheat plants at low temperatures. Canad. Journ. Res. 5: 337-354. illus. S.1931. no.3.

Chrysanthème (Lyon)

Routier,

Principales maladies des chrysanthèmes. Chrysanthème 1931: 44-47. table. F./Mr.1931.no.242.

Tableau ... indiquant les noms, des parasites, les organes auquels ils s'attaquent et les moyens de les combattre.

Stachelin, M.

La maladie vermiculaire du chrysanthème et son traitement. Chrysanthème 1931: 53-55, 114-115. illus. F./Mr., Ag./S.1931. no.242, 245.

Compt. Rend. Soc. Biol. Paris.

Auger, D.
Phénomènes pulsatoires électriques des cellules des characées. Compt. Rend. Soc. Biol. Paris. 107: 1495-1496. S.18, 1931. no.26.

Conard, A.
Les formes a noyau lenticulaire doivent être séparées des Spirogyra et réunies en un genre nouveau. Compt. Rend. Soc. Biol. Paris 107: 1595-1596. S.18, 1931. no.26.

Conard, A.
Observations sur le zygote de Spirogyra majuscula Kütz. Compt. Rend. Soc. Biol. Paris 107: 1593-1594. S.18, 1931. no.26.

Conard, A.
Sur les caractères présentés par Spirogyra majuscula Kütz. Compt. Rend. Soc. Biol. Paris 107: 1590-1592. S.18, 1931. no.26.

Guilliermond, A.
Sur le chondriome des champignons. Compt. Rend. Soc. Biol. Paris 107: 1514-1517. illus. S.18, 1931. no.26.

Compt. Rend. Soc. Phys. & Hist. Nat. Genève.

Schopfer, W. H.
Etude de l'influence des extraits de levures, et des concentrés de vitamines B sur la sexualité d'un champignon. Compt. Rend. Soc. Phys. & Hist. Nat. Genève 48: 105-107. Ap./Jl. 1931. no.2.
Phycomyces blakesleeanus.

Congr. Nat. Natur. Româna 1st, Cluj, April 1928.

Borza, A.
Observatiuni fitosociologice pe Insula Serpilor, (Phytosoziologische beobachtungen auf der Schlangeninsel im Schwarzen meere). Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.78-93. 1 pl. (fold.) 1930(Rec'd S.1931)
German summary: p.84-93.

Brandza, M.
Quelzues myxomycètes nouveau recoltes en Moldavie. Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.132-135. pl.xi-xii. 1930(Rec'd S.1931)

Congr. Nat. Natur. Româna 1st, Cluj, April 1928 (cont.)

Bujorean, G.
Aparate noua pentru masurarea factorilor ecologici (Neue apparate zur messung der ökologischen faktoren). Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.136-138. pl. xiii. 1930. (Rec'd S.1931)
German summary: p.137-138.

Georgescu, C. C.
Contributiuni la studiul pădurilor din Dobrogea de nord. (Beitrage zum studium der wälder der Norddobrogea). Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.162-170. 1930(Rec'd S.1931)
German summary: p.168-170.

Grintescu, I.
Culturile pure şi importanţa lor in studiul algelor, al schizoficeelor şi al ciupericolor. Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.171-173. 1930(Rec'd S.1931)

Grintescu, I.
Doua plante noui pentru România. Congr. Nat. Natur. Româna 1st, Cluj, April 1928 p.174-175. 1930(Rec'd S.1931)
Aconitum napellus clusianum, Quercus haas.

Guşuleac, M.
Sistemul boragineelor in lumina cercetărilor noui. (Le système des boraginées d'après recherches nouvelles). Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.183-197. 2 pl. 1930(Rec'd S.1931)
French summary: p. 197.

Iacobescu, N.
Contribuţiuni la studiul fenomenului de putrezire al lemnului, in picioare şi doborat. (Beitrage zum studium der faulniserscheinung des stehenden und des gefällten holzes). Congr. Nat. Natur. Româna 1st, Cluj, April 1928. pl.98-204. illus. 1930(Rec'd S.1931)
German summary: p.203-204.

Nyárády, E. J.
Munţii răţezat ca centru genetic de specii şi hibrizi de Hieracium. (Das ratezat-gebirges als genetisches zentrum für Hieracium-arten und hybriden.) Congr. Nat. Natur. Româna 1st, Cluj, April 1928. p.345-350. illus. 1930(Rec'd S.1931)
German summary: p.350.

Congr. Nat. Natur. Romana 1st, Cluj, April 1928 (cont.)

Pop, E.

Spectrul polinic al turbei dela Colăcel (Bucovina) (Pollenspektrum des moores von Colacel (Bucovina). Congr. Nat. Natur. Romana 1st, Cluj, April 1928 p.357-363. diagr. 1930(Rec'd S. 1931)

German summary, p.361-363.

Popescu, C. T.

Influenta grafajului asupra longevitatii hypobiontului si epibiontului de la fasole. Congr. Nat. Natur. Romana 1st, Cluj, April 1928. p.364-366. 1930(Rec'd S.1931)

Prodan, I.

Plantae novae et criticae. Congr. Nat. Natur. Romana 1st, Cluj, April 1928. p. 379-394, incl.3 pl. on 2. illus. 1930. (Rec'd S.1931)

Agropyron berezovcanum, Achillea páterii, A. laptophylloides, A. borzana, Centaureau odessana n. spp.

Veresceaghin, B.

Periodicitatea aparitiei inamiculor plantelor cultivate in legatura cu conditiunile naturale. (Périodicite de l'apparition des ennemis des plantes agricoles, en relation avec les conditions de la nature). Congr. Nat. Natur. Romana 1st, Cluj, April 1928. p.411-417. 1930(Rec'd S.1931)

Deut. Landw. Presse (Berlin)

Niehoff, A.

Kleewürger-bekämpfung. Deut. Landw. Presse. 58: 529. illus. S.19,1931. no.38.

Broom rape.

Ernähr. Pflanze. (Berlin)

Fürst, F.

Klappertopfbekämpfung durch hederich-kainit. Ernähr. Pflanze 27: 390-393. illus. S.15,1931. no.18.

Flor. Exch. (N.Y.)

Barberries and mahonias and the black stem rust quarantine. Flor. Exch. 78(4): 25. S.26,1931.

Gives list of rust resistant and rust susceptible barberries and mahonias.

Flor. Exch. (cont.)

Neilson, J. A.
Reducing storage and transplanting losses in nursery stock. Flor.Exch. 78(5): 27, 35. O.3, 1931.
"Losses due to desiccation and mold may be reduced by coating trees or shrubs with paraffin waxes or other similar waxes."

Nicolas, J. H.
A "Bertillon" description of roses. Flor. Exch. 78(6): 11,34. illus. O.10, 1931.

Flor. Rev. (Chicago)

Orchid hybridizing task of scientists. Flor. Rev. 68(1766): 21- 23. illus. O.1, 1931. no.1766.
Description of methods of production at the laboratory of Andrew Benson Inc., Des Plaines, Ill.

Forstarchiv. (Hannover)

Liese, J.
Zur Rhabdoclinekrankheit der douglasie. Forstarchiv. 7: 341-346. illus. S.15, 1931. no.18.

Fortschr. Landw. (Vienna)

Goffart, H.
Ueber die künstliche reizbeeinflussung des rübennematoden (Heterodera schachtii) Fortschr. Landw. 6: 579-583. S.15, 1931. no.18.

Kling, M.
Ein beitrag zur keimfähigkeit der unkrautsamen. Fortschr. Landw. 6: 577-579. S.15, 1931. no.18.
Ein 21jähriger versuch.

Kornfeld, A.
Beobachtungen am schneeschimmel. Fortschr. Landw. 6: 587-588. S.15, 1931. no.18.

Gard. Chron. (London)

Conway,
Early autumn colour. Gard. Chron. III, 90: 252. S.26,1931. no.2335.

Darlington, C. D.
The bearing of chromosome studies on plant breeding. (cont.) Gard. Chron. III, 90: 231-233. S.19, 1931. no.2332.

Gard. Chron. (cont.)

Friend, H.
Horticulture in relation to commerce. XV. Oranges and lemons. Gard. Chron. III, 90: 234. S.19, 1931. no.2334.

Skinner, F. L.
Lilium scottiae. Gard. Chron. III, 90: 256. illus. S.26, 1931. no.2335.
L. wilmottiae x L. mahoney.

Small, J.
Revelations of a pocket-lens. Gard. Chron. III, 90: 253. illus. S.26, 1931. no.2335.

Gard. Chron. Amer.

Creasey, L.B.
Dwarf Asiatic species of rhododendron, (cont.) Gard. Chron. Amer. 35: 371-372,377. O.1931. no.10.

Gard. Illus. (London)

Forster, W. A.
Plants for mild seaside gardens. II. Escallonias and Pittsoporums. Gard. Illus. 53: 593-594. illus. S.26, 1931. no.2742.

Gartenw. (Berlin)

Behrisch, R.
Sonnenbrand an wein. Gartenw. 35: 509-510. illus. S.11, 1931. no.37.

Kämpfer, M.
Neue seuche an pappeln. Gartenw. 35: 525. illus. S.18, 1931.no.38.
Dothichiza populea.

Gartenz. (Wien)

Hofrat Professor Dr. Richard Wettstein. Gartenz. (Wein) 1931: 149. port. S.1931. no.9.

Neumann, H.
Bakteriose auf tomatenblättern (Pseudomonas vesicatoria Do.) Gartenz. (Wien) 1931: 137-139. illus. Ag.1931. no.8.

Hedwigia (Dresden)

Schiffner, V.
Neue und bemerkenswerte meeresalgen. (concl.)
Hedwigia 71: 161-205. illus. Ag.1931. no.3/4.

Steiner, J. & Zahlbruckner, A.
Beitrag zur kenntnis der flechtenflora des gran Sasso-gebietes (Abruzzen). Hedwigia 71: 206-214. Ag.1931. no.3/4.

Indian For. (Dehra Dun)

Chowdhury, K. A.
Sandalwood and its Indian substitutes. Indian For. 57: 431-433. pl.23. S.1931. no.9.

Industr. & Engin. Chem. (Easton, Pa. (Anal. Ed.)

Kohman, E. F.
Ethylene treatment of tomatoes. Industr. & Engin.Chem. 23: 1112-1113. O.1931. no.10.

Jour. Agr, Res. (Washington, D. C.)

Artschwager, E. & Starrett, R. C.
Suberization and wound-periderm formation in sweet-potato and gladiolus as affected by temperature and relative humidity. Jour. Agr. Res. 43: 353-364. illus.,1 pl. (col.) Ag.15,1931(S.31) no.4.

Floroll, V. H.
Inheritance of type of floret separation and other characters in interspecific crosses in oats. Jour. Agr. Res. 43: 365-386. illus., 6 pl. on 3. Ag.15,1931(S.31) no.4.

Johnson, H. W.
Storage rots of the Jerusalem artichoke. Journ. Agr.Res. 43: 337-352. illus. Ag.15,1931. (S.31) no.4.

Journ. Dept. Agr. So. Australia (Adelaide)

Warren, A. L.
Camel thorn or Caspianmanna, Alhagi camelorum (Fisch.) Journ. Dept. Agr. So. Australia 35: 31-34. illus. Ag.15,1931. no.1.

Journ. Dept. Agr. Victoria (Melbourne)

Morgan, A.
Experiments in hoary cress control. I. Field trials. Journ. Dept. Agr. Victoria 29: 406-416. illus. Jl.1931. no.8.
Lepidium draba.

Journ. Dept. Agr. Victoria (cont.)
Read, F.M.
Leaf scorch of fruit trees. Journ. Dept. Agr. Victoria 29: 386-387. illus. Ag.1931.no.8.

Journ. Ecol. (Cambridge, Engl.)
Huber, B.
Die trockenanpassungen in der wipfelregion der baume und ihre bedeutung fur das xerophytenproblem. Journ. Ecol. 19: 283-291. Ag.1931. no.2.
Symposium on xeromorphy. Intern. Bot. Congr. Cambridge, 1930.

Journ.N.Y.Bot. Gard.
Small, J. K.
The wild pepper-plants of continental United States. Journ. N.Y.Bot. Gard. 32: 210-223. illus. S.1931. no.381.
Biographical footnotes by J. H. Barnhart.

Journ. Pomol.&Hort. Sci. (London)
Irwin, J. O.
Precision records in horticulture. Journ. Pomol. & Hort. Sci. 9: 176-194. tables. S.1931. no.3.
Apples.

Johnstone, K. H.
Observations on the varietal resistance of the apple to scab (Venturia inaequalis Aderh.) with special reference to its physiological aspects. II. Journ. Pomol. & Hort. Sci. 9: 195-227. S.1931. no.3.

Wormald, H.
Further studies on the brown rot fungi. VI. Brown rot blossom wilt of the Morello cherry: infection through unopened flowers. Journ. Pomol. & Hort. Sci. 9: 232-237. 3 pl. on 2. S.1931. no.3.

Journ. Sapporo Soc. Agr. & For.
Tatewaki, M.
A list of plants collected in the Horomui-Moor, Prov. Ishikari, Hokkaido II. Journ. Sapporo Soc. Agr. & For. 23: 103-134. S.1931. no.105.

Yamano, Y.
On the mode of infection of Daedarea jezoensis, the fungus causing the ring -scale of Picea jezoensis and its prevention. Journ. Sappor Soc. Agr. & For. 23: 135-171. illus.3 pl. S.1931. no.105.
In Japanese.

Kryptogamische Forsch.

Hillmann, J.
Beitrage zur flechtenflora Bayerns. I. Kryptogamische Forsch. 2: 225-239. My.1931. no.2.

Kaiser, P.
Desmidiaceen des Berchtesgadener Landes. III. Kryptogamisch. Forsch. 2: 120-129. illus. My. 1931. no.2.

Killermann, S.
Die Nidularia Fr.-gruppe. Kryptogamische Forsch. 2: 194-198. pl.5. My.1931. no.2.

Koppe, F. & Koppe, K.
Beitrage zur mossflora des Bayerischen waldes. Kryptogamische Forsch. 2: 198-225. My,1931.no.2.

Mayer, A.
Beitrage zur kenntnis der algenflora des Ammerseegebietes. II. Bacillariales aus dem Wörthsee und seiner umgebung. Kryptogamische Forsch. 2: 129-155. pl.4. My.1931. no.2.

Petrak, F.
Fungi adeani. Ein beitrag zur pilzflora Bayerns und der angrenzenden länder. Kryptogamische Forsch. 2: 155-194. My.1931.no.2.
Describes a number of new species and two new genera (Pleurodiscus, P. gregarius and Pleurosticta P. lichenicola)

Landw. Jahrb. (Berlin)

Berlin-Dahlem. Lehr-und forschungsanstalt für gartenbau.
Praktische versuche aus dem gebiet der gärtnerischen pflanzenschutzes. In its Bericht. Landw. Jahrb. 74(Ergänzungsbd. 1): 324-333. 1931.

Lüstner, G.
Bericht über die tätigkeit der pflanzenpathologischen versuchsstation. In Bericht Lehr- u. Forschungsanst. Wein-, Obst- u. Gartenb. Geissenh. a Rh. 1930. Landw. Jahrb. 74(Ergänzungsbd.1): 391-395. 1931.

Landw. Jahrb. (cont.)
Schander, R.
Bericht uber die tätigkeit des Institutes fur pflanzenkrankheiten 1930/31. In Jahresber. Preuss. Landw. Versuchs- u. Forschungsanst. Landsberg. a.d. Warthe 1930/31. Landw.Jahrb. 74. (Erganzungsbd.1): 48-65. 1931.

Lingnan Sci. Journ. (Canton,China)
McClure, F. A.
Studies of Chines bamboos. 2. Notes on culture, preparation for market, and uses. Lingnan Sci. Journ. 10: 295-305. pl.35-39. Ag.1931(Rec'd O.) no.2/3.

Matières Grass. (Paris)
Wildeman, E.de.
La fécondation artificielle chez les palmiers à huile. Matières Grass. 23: 9275. S.15,1931. no.281.

Meld. Norges Landbruks. (Oslo)
Lunden, A. P.
Arvelighetsundersøkelser i bygg. Nedarvning av bukstillkbeharing, snerpets beskaffenhet, internodielengde, samt undersøkelser over disse karakterers innbyrdes korralasjonsforhold. (Inheritance studies in barley). Meld. Norges Landbruks. 11: 143-168. 1931. no.3.
English summary: p.165-167.

Mid-Pacific Mag.
Cook, O. F.
Tropical America's agricultural gifts. Mid-Pacific Mag. 42: 344-350. O.1931. no.4.

Missouri Bot. Gard. Bull. (St.Louis)
Turner, J. A.
A new plant for Missouri. Missouri Bot. Gard. Bull. 19: 121. S.1931. no.7.
Picris sprengeriana.

Möller's Deut. Gartn.-Zeit. (Erfurt)
Reusrath, Th.
Die verhütung der braunfleckenkrankheit der tomaten. Möller's Deut. Gärtn.-Zeit. 46: 335. O.1, 1931. no.28.
Cladosporium fulvum.

Nature (London)

Samuel, G. & Bald, J. G.
Thrips tabaci as a vector of plant virus disease. Nature 128: 494. S.19, 1931. no.3229.

Smith, S. G.
Cytology of Anchusa and its relation to the taxonomy of the genus. Nature 128: 493-494. illus. S.19, 1931. no.3229.

Nauk. Zapiski Tsukr. Prom. [Sci. Bull. Sugar Trade] (Kief)

Nevodovsky, G.
Vpliv tsvil'ovikh gribiv na rozvitok koreneidu buriakpvikh skhodiv (The influence of fungi upon the development of root burn in beets). Nauk. Zapiski Tsukr. Prom. [Sci. Bull. Sugar Trade] 9: 133-140. 1930(Rec'd S.1931) no.1/2.
Ukrainian with English summary.

Panasenko, V. T.
Pro deiaki vidi grivib iz poriadku Mucorales, shcho viklikaiut gnittia kagativ (Some species of fungi of the Mucorales, which cause the rotting of beets in piles). Nauk. Zapiski Tsukr. Prom. [Sci. Bull. Sugar Trade] 10: 337-345. 1930(Rec'd S.1931) no.1/4.
Ukrainian. English rev. in Rev. Appl.Mycol.10:426. Species of Mucor and Rhizopus.

Shchibria, N.A. & Artem'ev, G. V.
O tsvetenii tsikoriia (Cichorium intybus L.) (The florescence of chicory (Cichorium intybus). Nauk. Zapiski Tsukr. Prom. [Sci. Bull. Sugar Trade] 10: 491-510. illus. 1930(Rec'd S.1931) no.5/6.
Russian.

Stepanenko, A. G.
Otnoshenie k korneedu razlichnykh marok sakharnoi svekly (The effect of root burn on the different brands of sugar beet). Nauk. Zapiski Tsukr. Prom. [Sci. Bull. Sugar Trade] 10: 325-336. 1930(Rec'd S.1931) no.3/4.
Russian. English review in Rev.appl. Mycol. 10:425.

Sinits'ki, M.
Do vivchennia biologii buriakovoi nematodi Heterodera schachtii Schm. (Study of the biology of the beet-nematode, Heterodera schachtii Schm.) Nauk. Zapiski Tsukr. Prom. [Sci. Bull. Sugar Trade] 9: 538-544. 5 pl. 1930(Rec'd S.1931) no.5/6.
Ukrainian with English summary.

New Zeal. Journ. Agr.(Wellington)

Cunningham, G. H.
Fireblight and its control. New Zeal. Journ. Agr. 43: 111-118. illus. Ag.20, 1931. no.2.

Deem, J. W.
Control of weeds with chlorates. Further experimental results. New Zeal. Journ. Agr. 43: 105-110. illus. Ag.20, 1931. no.2.

Philipp. Journ.Sci. (Manilla)

Skvortzow, B. W.
Mycetozoa from North Manchuria, China. Philipp. Journ. Sci. 46: 85-93. 5 pl. S.1931. no.1.

Skvortzow, B. W.
Pelagic diatoms of Korean Strait of the Sea of Japan. Philipp. Journ. Sci. 46: 95-122. 10 pl. S.1931. no.1.

Skvortzow, B. W.
Plankton diatoms from Vladivostok Bay. Philipp. Journ. Sci. 46: 77-81. 2 pl. S.1931.no.1.

Planta Arch. Wiss. Bot. (Berlin)

Benecke, W. & Arnold, A.
Kulturversuche mit keimlingen von mangrovepflanzen. Planta Arch. Wiss. Bot. 14: 471-481. S.8, 1931. no.2.

Boehm, K.
Embryologische untersuchungen an zingiberaceen. Planta Arch. Wiss. Bot. 14: 411-440. illus. S.8, 1931. no.2.

Kärcher, H.
Ueber die Kälteresistenz einiger pilze und algen. Planta Arch. Wiss. Bot. 14: 515-516. S.8, 1931. no.2.

Neumcke, U.
Untersuchungen über falsche keimungen von Phacelia tanacetifolia Benth. Planta Arch. Wiss. Bot. 14: 310-343. illus. S.8,1931. no.2.

Paetow, W.
Embryologische untersuchungen an taccaceen, meliaceen und dilleniaceen. Planta Arch. Wiss. Bot. 14: 441-470. illus. S.8, 1931. no.2.

Planta Arch. Wiss. Bot. (cont.)

Rondsorf, L.
Ueber die chemischen bedingungen von wachstum und zygotenbildung bei Phycomyces blakesleeanus. Planta Arch. Wiss. Bot. 14: 482-514. illus. S.8, 1931. no.2.

Seybold, A.
Weitere beiträge zur transpirationsanalyse. III. Eine methode der differenzierten transpirations-bestimmung in bewegter luft. Planta Arch. Wiss. Bot. 14: 225-309. illus. S.8,1931.no.2.

Vassiljev, I. M.
Ueber dan wasserhaushalt von pflanzen der sandwüste im südöstlichen Kara-Kum. Planta Arch. Wiss. Bot. 14: 225-309. illus. S.8,1931. no.2.

Wenderoth, H.
Beiträge zur kenntnis des sporophyten von Polytrichum juniperinum Willdenow. Planta Arch. Wiss. Bot. 14: 344-335. illus., pl. i (fold.) S.8, 1931. no.2.

Preslia (Praha)

Domin, K.
A new species of Miconia from St.Vincent in the Lesser Antilles. Preslia 9: 3-4. pl.i. 1930(Rec'd S.1931)
Miconia caribaea

Klästerský, I.
Ad floram carpatorossicam additamenta critica II Preslia 9: 5-21. pl.ii-v. 1930(Rec'd S.1931)

Sula, J.
Pithophora pragensis n.sp.; eine neue Pithophora aus Prague aquariums. Vorläufige mitteilung. Preslia 9: 22-25. illus. 1930(Rec'd S.1931)

Proc. Nat. Acad. Sci.

Fisk, E. L.
The chromosomes of Lathyrus tuberosus. Proc. Nat. Acad. Sci. 17: 511-513. illus. S.15,1931. no.9

Quart. Rev. Biol. (Baltimore)

Allison, F. E.
Forms of nitrogen assimilated by plants. Quart. Rev. Biol. 6: 313-332. S.1931. no.3.

Repert. Spec. Nov. Beih. (Dahlem bei Berlin)

Gross-Camerer, H.

Arealmässige und ökologische beziehungen verschiedener waldpflanzen zur formation des rotbuchenwaldes. Repert. Spec. Nov. Fedde Beih.64. 179 p. maps, fold.tab. 1931.

Schlechter, R.

Blütenanalysen neuer orchideen. II. Mittelamerikanische orchideen, hrsg. von R. Mansfeld. 2.lfg. Repert. Spec. Nov. Fedde Beih. v.59,2. Ag.1931.

Repert. Spec. Nov. Fedde Sonderbeih.

Keller, G. & Schlechter, R.

Monographie und iconographie der orchideen Europas und des Mittelmeergebietes. Repert. Spec. Nov. Fedde Sonderbeih. A. v.2, lfg.2/3. Jl.1931.

Rep. Bot. Soc. & Exch. Club Brit. Isles.

Dalgliesh, J. G.

The British white waterlily, Nymphaea alba L. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 438-441. Ag. 1931. no.3.

Fraser, J.

Notes on Mentha. Repert. Bot. Soc. & Exch. Club Brit. Isles 9: 421-422. Ag.1931. no.3.

Magnolia grandiflora L. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 437. pl.3. Ag.1931. no.3.

A facsim. of a letter from Robert Stevens of Carolina forwarding a specimen of Magnolia grandiflora to Henry Compton, Bishop of London, in 1701.

Pearsall, W. H.

Notes on Potamogeton. II. The larger British species. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 348-415. Ag.1931. no.3.

Watson, W.

Bramble notes, 1930. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 423-437. Ag. 1931. no.3.

Rep. Bot. Soc. & Exch. Club Brit. Isles (cont.)

Drabble, E.
Additional pansy records. Rept. Bot. Soc. & Exch. Club Brit. Isles 9: 457-460. Ag.1931. no.3.

Drabble, E.
The British forms of Ranunculus acer L. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 472-478. Ag. 1931. no.3.

Druce, G. E.
Plants new to the Cyprus flora, 1928 and 1930. Rep. Bot.Soc. & Exch. Club Brit. Isles 9:469-471. Ag. 1931. no.3.

Flintoff, R. J.
Teratological forms of Plantago lanceolata L. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 461-464. pl.4. Ag.1931. no.3.

Hall, P. M.
Some notes on British orchids in 1930. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 442-453. Ag.1931. no.3.

Hyde, H. A.
Samuel Brewer's diary: a chapter in the history of botanical exploration in North Wales. Rep. Bot. Soc. & Exch. Club Brit. Isles Suppl. 9: 1-30. Ag. 1931. no.3.

Marsden-Jones, E. M. & Turrill, W. B.
Species studies in plants. Rep. Bot. Soc. & Exch. Club Brit. Isles 9: 416-420. Ag. 1931. no.3.

Rev. Agr. Com. y Trab. Cuba (Habana)

Bruner, S. C. & Aguiar, C.
Informe sobre experiencias con dioxido de azufre para evitar la pudrición negra de la pina. Rev. Agr. Com. y Trab. Cuba 13(3): 20-31. illus. S.1931.

Rev. Path. Vég. & Entom. Agr. (Paris)

Bouriquet, G.
Un pourridié de la canne à sucre causé par Dictyophora multicolor Berk. et Br. Rev. Path. Vég. & Entom. Agr. 18: 220-224. pl.x. Je. 1931(Rec'd O.) no.6.

Labrousse, F.
L'anthracnose du pois-chice. II. Rev. Path. Vég. & Entom. Agr. 18: 226-231. Je.1931(Rec'd O. 1931) no.6.

Rev. Path. Vég. & Entom. Agr. (cont.)
Petit, A.
La désinfection à sec des semences du ble contre la carie. Rev. Path. Vég. & Entom. Agr. 18: 224-226. Je.1931(Rec'd O.) no.6.

Riv. Ital. Essen. e Profumi (Milano)
Gortesi, F.
Piante medicinali ed aromatiche della Sardegna. Riv. Ital. Essen. e Profumi 13: 257-262. illus. S.15, 1931. no.9.

Riv. Pathol. Veg. (Pavia)
Galletti, A. C.
Sul probabile metabolismo del solfato ferroso impartito al terreno per curare la clorosi della vite. Riv. Patol. Veg. 21: 197-207. Jl./Ag. 1931. no.7/8.

Passalacqua, T.
Studi e problemi sull'orobanche delle fave in Sicilia. Riv. Patol. Veg. 21: 209-218. Jl./Ag. 1931. no.7/8.

Schweiz. Landw. Monatsh. (Bern)
Knuchel, H.
Big trees. Schweiz. Landw. Monatsh. 9: 159-170. illus. Jl.1931. no.7.

Science (Lancaster,Pa.)
Alexander, L. J. & Young, H. C.
Control of powdery mildew and red spider on greenhouse cucumbers. Science 74: 314-315. S.25, 1931. no.1917.

Bodine, E. W.
Double plate method used for culturing Tilletia levis. Science. 74: 341. O.2, 1931. no.1918.

Emig, W. H.
The megagametophyte of Pinus. Science 74: 337-338. O.2, 1931. no.1918.

Haasis, F. W.
Expulsion of gas and liquids from tree trunks. Science 74: 311-312. S.25, 1931. no.1917.

Stewart, G.
Inbreeding in alfalfa establishes a high degree of homozygosity. Science 74: 341-343. O.2, 1931. no.1918.

Stain Techn.

Crafts, A. S.
A technic for demonstrating plasmodesma.
Stain Techn. 6: 127-129. illus. O.1931. no.4.

Lutz, H. J.
Technic of preparing thick sections of mature pine cones. Stain Techn. 6: 123-125. illus. O. 1931. no.4.

Sax, K.
The smear technic in plant cytology. Stain Techn. 6: 117-122. O. 1931. no.4.

Subtropiki. (Suchum)

Federov, S. M.
Sovremennoe sostoianie issledovanii po vreditelam i bolezniam tabaka v Krymu (The present state of the investigations concerning the diseases and insects injurious to tobacco culture in the Crimea). Subtropiki 2(3/4): 115-121. Mr./Ap. 1930(Rec'd O.)
Russian with English summary.

Markovich, V. V.
Kommercheskii mandarin Indii. Citrus khasya sp. nova - soh niamtra ipi suntara (otchasti) (A commercial mandarin of India. Citrus khasya sp.nova - soh niamtra or suntara. A preliminary report). Subtropiki 2(3/4): 96-105. illus. Mr./Ap.1930 (Rec'd O.1931)
Russian with English summary.

Petrov, S. I.
Novye ekzoticheskie tykvennye i vozmozhnost ikh kul'tury v Sukhume (New exotic Cucurbitaceae and the possibility of growing them in Sukhum) Subtropiki 2(3/4): 104-111. illus. Mr./Ap.1930(Rec'd O.1931)
Russian.

Pisarev, V. E.
Voprosy selektsii guaiuly v Soiuze SSR (The problem of guayule breeding in USSR). Subtropiki 2(3/4): 33-50. Mr./Ap. 1930(Rec'd O.1931.)
Russian with English summary.

Sugar News. (Manila)

Mendiola, N. B.
The method of sugar-cane breeding followed in the College of agriculture at Los Baños. Sugar News 12: 589-591. S.1931. no.9.

Sugar News (cont.)

Ocfemia, G.O.

The diseases of sugar cane occurring at the College of agriculture at Los Baños and in the immediate neighborhood. Sugar News 12: 595-599. S.1931. no.9.

Tijdschr.Plantenz.

Fransen, J. J.

De verbreiding der iepenziekte door de iepenspintkevers en de bestrijding van dit insect in de practijk. Tijdschr. Plantenz. 37: 169-187. pl.xv-xvii. S.1931. no.9.

Trans. Brit. Mycol. Soc. (London)

Barnett, E. C.

Some fungi on bracken. Trans. Brit. Mycol. Soc. 16: 85-86. S.1931. no.1.

Rhopographus filicinus & Mycosphaerella type.

Biffen, R. H.

The cereal rusts and their control. Trans. Brit. Mycol. Soc. 16: 19-37. S.1931. no.1.

Darbishire, O. V.

Observations on the margin of Pertusaria communis (L.) DC. Trans. Brit. Mycol. Soc. 16: 38-54. pl. i-ii. S.1931. no.1.

Dennis, R. W. G.

The black canker of willows. Trans. Brit. Mycol. Soc. 16: 76-84. S.1931. no.1.

Caused by Physalospora miyabeana, Fusicladium saliciperdum incapable of causing any disease of willow leaves, rods or tips.

Petch, T.

Notes on entomogenous fungi. Trans. Brit. Mycol. Soc. 16: 55-75. illus. S.1931. no.1.

Trop. Agriculture West Indies (Trinidad)

The Imperial Mycological Institute. Trop. Agriculture West Indies 8: 276-277. 1 pl. O.1931. no.10.

Tomkins, R. G.

Wastage in banana transport. Wastage in the refrigerated transport of Canary bananas from South America to Europe. Trop. Agriculture West Indies 8: 255-264. 2 pl. on 1. O.1931. no.10.

Ugeskr. Landmaend.
Hansen, P.G.
Staengelsyge i rødløver foraarsaget af svampen Gloeosporium caulivorum. Ugeskr. Landmaend. 76: 613-615. S.25, 1931. no.39.

U.S. Dept. Agr. Circ.
McNamara, H. C., Hooton, D. R. & Porter, D. D.
Cycles of growth in cotton root rot at Greenville, Tex. U.S. Dept. Agr. Circ. 173. 17 p. illus. S.1931(Rec'd O.)

200

U.S. Dept. Agr. Off. Rec.
Ammonia may control cotton root disease. U.S. Dept. Agr. Off. Rec. 10: 297-298. O.3,1931. no.40.

Univ. Calif. Publ. Bot.(Berkeley)
Setchell, W. A.
Some early algal confusions. Univ. Calif. Publ. Bot. 16: 351-364. pl.31. 1931. no.10.

Verh. K. Akad. Wetensch. Amsterdam 2. sect.
Stelling-Dekker, N. M.
Die sporogenen hefen. Verh.K. Akad. Wetensch. Amsterdam 2. sect. 28. no.1. 547 p. illus. 1931.
Die hefesammlung des "Centraal-bureau voor schimmelcultures". Beiträge zur einer monographie der hefearten 1. teil.

Voordr. 4. Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen.
Botjes, J. G. O.
De vatbaarheid van aardappelrassen ten opzichte van virusziekten. Voordr. 4, Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen, July 1930. p.517-528. illus. 1930(Rec'd S.1931)

Dorst, J. C.
Overbrenging van mozaiekziekte door beschadiging of aanraking van planten. Voordr. 4, Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen, July 1930, p.512-516. 1930(Rec'd S.1931)

Groene, F. de
Mededeelingen over proeven met eigenheimer in den Wilhelminapolder met betrekking tot de verbreiding der mozaiekziekte. Voordr. 4, Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen, July 1930. p.553-561. illus., tab. 1930(Rec'd S.1931)

Voordr. 4. Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen. (cont.)

Koeslag, J. D.
De invloed van klimaat en grondsoort op de waarde van pootgoed. Voordr. 4, Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen, July 1930. p.561-577. maps. 1930(Rec'd S.1931)

Quanjer, H. M.
De selectie van den aardappel en de invloed van uitwendige omstandigheden, speciaal van de bemesting, op het resultaat daarvan. Voordr. 4, Aardappeldag Centr. Com. Keur. Gewass., Gehoud. Wageningen, July 1930 p.542-549. 1930(rec'd S.1931)

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Herlan, H.
Phänologisch-züchterische untersuchungen an den vier haupttabaksorten Badens. Wiss. Arch. Landw. Abt.A. Pflanzenbau 7: 309-412. illus. S.10,1931. no.3.

Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard. Nikita) (Ialta)

Dostoinova, E. Ia.
Fitoklimaticheskie analogi iuzhnogo Kryma i Chernomorskogo poderezh'ia Kavkaza. Kaliforniia (Phytoclimatical analogues of southern Crimea and of the Caucasian coast of the Black Sea. California) Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard. Nikita) v.13, no.3/4. 86 p. map.1931.
Russian with English summary.

Maleev, V. P.
Rastitel'nost' raiona Novorossiisk-Mikhailovskii pereval i ee othoshenie k Krymu (Die vegetationsverhältnisse im Noworossijsk-bezirko (im N-W. des Kaukasus) und ihre beziehungen zur vegetation der Krim) Zapiski Gosud. Nikitsk. Opytn. Bot. Sada (Journ. Gov. Bot. Gard Nikita) 13: 71-74. 1931. no.2.
Russian with German summary.

Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A. Wiss. Teil (Leipzig)

Pirschle, K.
Nitrate und ammonsalze als stickstoffquellen für hohere pflanzen bei konstanter wasserstoffionen konzentration. IV. Zeitschr. Pflanzenernähr. Düng. u. Boden, A. Wiss. Teil. 22: 1-86. 1931. no.1/2.

Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A. Wiss. Teil (cont.)
Sekera, F.
Die nutzbare wasserkapazität und die wasserbeweglichkeit im boden. Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A.Wiss. Teil 22: 87-111. illus. 1931. no.1/2.

Zeitschr. Pflanzenkr. (Stuttgart)
Lohwag, H.
Zur rinnigkeit der buchenstämme. Zeitschr. Pflanzenkr. 41:371-385. illus. Ag. 1931. no.8.

Tubeuf, K.von
Aufrechter schlangenwuchs des gipfeltriebes der nordmannstanne. Zeitschr. Pflanzenkr. 41:440-441. S.1931. no.9.

Tubeuf, K. von
Ist Pinus peuce gegen den blasenrostpilz immun oder für ihn nur wenig disponiert? Zeitschr. Pflanzenkr. 41: 369-370. Ag. 1931. no.8.

Tubeuf, K. von
Unerwünschte bastardbildung. Zeitschr. Pflanzenkr. 41:386-387. Ag.1931. no.8.

Zeitschr. Zuckerind. Čechoslovak. Rep.
Stehlik, V.
Phil. Dr. František Rambousek. Zeitschr. Zuckerind. Čechooslovak. Rep. 56: 40. S.18, 1931. no.3.
Notice of death.

Exper. Stat. Publ.
Cook, M. T.
Annual report of the Division of botany and plant pathology for 1929-30. Ann. Rep. Insul. Exp. Stat. Porto Rico. 1929/30: 93-109. pl. 1931.

State Publications.
Chambers, E. L. & Thompson, N. F.
Some of the more important insects and plant diseases of Wisconsin trees and shrubs. Wisconsin Dept. Agr. & Markets Bull. 123. 58 p. illus. Ag.1931.
Includes diseases of fruit trees, small fruits, gladiolus, iris and peony.

State Publications (cont.)

Mattoon, W.R. & Anderson, P.
Forest trees of Minnesota. A pocket manual describing their most important characteristics. Univ. Minn. Ext. Div. Pamphl. 17. 54 p. illus. N.1930(Rec'd Ag.1931)

New Books.

Adams, J.
A student's illustrated Irish flora, being a guide to the indigenous seed-plants of Ireland. Ashford, Kent, L. Reeve & Co., 1931.

Bobilioff, W.
Anatomie en physiologie van Hevea brasiliensis. Batavia, Ruygrok & Co., 1930.

Compain, M.
Guide de l'herboriste-droguiste, 2. ed. Limoges, Editions Compain, 1930.

Garcia Cañizares, Felipe
Botanica, general y descriptiva. Habana, Cultural, S.A., 1930.

Gardner, C.A.
Enumeratio plantarum Australiae Occidentalis. A systematic census of the plants occurring in Western Australia. Perth, Government printer, 1931.

Grimwade, R.
An anthography of the eucalypts. Sydney, Angus & Robertson, 1930.

Handel-Mazzetti, H.
Symbolae sinicae. Botanische ergebnisse der expedition der Akademie der wissenschaften in Wien nach Südwest-China 1914/1918. VII. teil. lfg. 2. Anthophyta [Euphorbiaceae - Pittosporaceae] Wien, J.Springer, 1931.

Hédin, L.
Etude sur la forêt et les bois du Cameroun sous mandat français. Paris, Librairie Larose, 1930.

New Books (cont.)

Heim, R.
Le genre Inocybe. Paris, P. Lechevalier, 1931. (Encyclopédie mycologique I)

Hoehne, F. C.
Album de orchidáceas brasileiras e o orchidário do estado de S. Paulo. Sao Paulo, O.1930.

James, W. O.
An introduction to plant physiology. Oxford, Clarendon press, 1931.

Klein, G., ed.
Handbuch der pflanzenanalyse. v.1. Allgemeine methoden der pflanzenanalyse. bearb. von R. Brieger, F. Feigl. &c. Wien, J.Springer, 1931.

Leemann, A. C.
Vegetationsbilder aus den Mageliesbergen in der hochebene von Transvaal. In Karsten, G. Vegetationsbilder r.22, h.3. pl.13-18. 1931.

Matheny, W. A.
Seed dispersal. Ithaca, Slingerland Comstock Co., 1931.

Migula, W.
Kryptogamen-flora...bd.XI,1-2, Die pilze Berlin, [1931] (Dir. Prof. Dr. Thomé-Migula Flora von Deutschland, Oesterreich und der Schweiz...Abt.II)

Die natürlichen pflanzenfamilien. 2. stark verm. und verb. aufl. bd.19c. Angiospermae: reihe Geraniales... Leipzig, 1931.
Dichapetalaceae. A. Engler & K. Krause. - Euphorbiaceae. F. Pax & K. Hoffmann. - Daphniphyllaceae. K. Rosenthal. - Callitrichaceae. F. Pax & K.Hoffmann.

Prodan, I.
Centaureele României (Centaurea Romaniae) Cluj, Institutul de arte grafice "Ardealul", 1930.

New Books (cont.)

Rabenhorst, L.
Kryptogamen-flora von Deutschland, Oesterreich und der Schweiz XIV.bd. Cyanophyceae (blaualgen) ... von L. Geitler. lfg.3. Leipzig, 1931.

Rijn, J. J. L. v.
Die glykoside. Chemische monographie der pflanzenglykoside...2. ergänzte und neubearb. aufl. von Dr.Hugo Dieterle. Berlin, Borntraeger, 1931.

Silva-Tarouca, E. graf. & Schneider, C.
Unsere freiland-stauden... 4., vollständig neu bearb. aufl. Wien, Hölder-Pichler-Tempsky,1927 (Kulturhandbücher für gartenfreunde bd.1).

Trier, G.
Die alkaloide. Eine monographie der natürlichen basen. 2. neu bearb. aufl. Berlin, Borntraeger, 1931.

U.S. Bureau of fisheries.
Publications on seaweeds. Washington, D. C., Ja. 1930.
Mimeographed.

Translations filed in Library, Bureau of Plant Industry.

Bremer, G.
De cytologie van det suikerriet. V. Een onderzoek over de somatische chromsomenaantallen van suikerriet (On the cytology of sugar cane. V. Investigations on the number of somatic chromosomes of sugar cane). Arch. Suikerind. Nederl. Indie 1931, pt.3. (Meded. 13): 583-607. 1931.

Briosi, G. & Farneti, R.
Intorno alle ruggine bianca dei limoni (Citrus limonum Risso) grave malattia manifestatasi in Sicilia. Atti Ist. Bot. R. Univ. Pavia n.s., 10: 1-60. 1907.
Transl. of p.19-60.

Kulescha, M.
Orienteerende onderzoek over de ontwikkeling van het wortelstelsel bij 2878 POJ in verband met de grondsoort (Orientating investigations on the development of the root-system of 2878 POJ in connection with the variety of the soil) Arch. Suikerind. Nederl.-Indie 1931, pt.3 (Meded. 8): 317-358. 1931.

Translations (cont.)

Leick, E.

Untersuchungen über den einfluss des lichts auf die öffnungsweite unterseitiger und obseitiger stomata desselben blattes (Investigations of the influence of the light upon the width of opening of stomata on the lower and upper face of the same leaf) Jahrb. Wiss. Bot. 67: 771-848. F.1927.

Non-current indexing.

Ann. Naturh. Mus. Wien.

Kränzlin, F.

Reliquiae quaedam Reichenbachianae. Ann. Naturh. Mus. Wien 44: 323-327. 1930.

Angraecum pachyrum, A. robustum, Xylobium tuerckheimii, Pinella tuerckheimii, Pleurothallis chuquiribambae, n.spp.

Ann. Appl. Biol.

Hughes, A. W. M.

Aphis as a possible vector of "breaking" in tulip species. Ann. Appl. Biol. 17: 36-42. pl.iii. F.1931. no.1.

Boll. Sez. Ital. Soc. Intern. Microbiol.

Curzi, M.

Sur la mutation d'un hyphomycète (Fusarium moronei Curzi). Boll. Sez. Ital. Soc.Intern. Microbiol. 2: 295-298. Je.1930. no.6.

Petri, L.

Les "saltations" des microrganismes et leur signification biologique. Boll. Sez. Ital. Soc. Intern. Microbiol. 2: 260-294. Je.1930. no.6.

Scaramella, P.

Essai sur la micoflore des terrains du Petit St.Bernardo (Val d'Aosta 2160 m.) Boll. Sez. Ital. Soc. Intern. Microbiol. 2:478-482. D. 1930. no.12.

Non-current indexing. (cont.)

Bull. Dept. Biol. Coll. Sci. Sun Yatsen Univ. (Canton, China)
Tong, K.
Studien uber die familie der Hamamelidaceae, mit besonderer berucksichtigung der systematik und entwicklungsgeschichte von Corylopsis. Bull. Dept. Biol. Coll. Sci. Sun Yatsen Univ. no.2. 72 p. illus. 1930.

Rep. Arizona Comm. Agr. & Hort.
George, D. C.
Report of plant pathologist including notes on plant diseases in Arizona in 1925-28. Rep. Arizona Comm. Agr. & Hort. 17/18(1925/6-1926/7): 37-59. illus. [1927?]; 19/20(1927/8-1928/9): 32-52. [1929?]

Rep. Subord. Off. Dept. Agr. Madras.
Sundararaman, S.
Administration report of the government mycologist, Coimbatore, for 1928/29. Rep. Subord. Off. Dept. Agr. Madras 1928/29: 407-433. 1929.

Rev. Col. Nac. Vicente Rocafuerte.
Sodiro, A.
Sertula florae ecuadorensis series 3a. Rev. Col. Nac. Vicente Rocafuerte 11: 29-64. 4 pl. Jl./D. 1929. no.38/39.
Gramíneas ecuatorianas.

Rev. Path. Vég. & Entom. Agr.
Foex, E. & Rosella, E.
Sur les diverses formes du piétin. Rev. Path. Vég. & Entom. Agr. 17: 41-51. F.1930. no.2.

Guyot, A. L.
De l'influence de quelques opérations culturales sur le développement du piétin dublé en 1928-1929. Rev. Path. Vég. & Entom. Agr. 17: 52-62. F.1930. no.2.

Kerleroux, L.
Quelques observations sur le piétin du blé. Rev. Path. Vég. & Entom. Agr. 17: 36-40. F.1930. no.2.

Non-current indexing. (cont.)

Rev. Path. Veg. & Entom. Agr. (cont.)

Labrousse, F.
L'anthracnose due pois chiche (Cicer arietinum) Rev. Path. Vég. & Entom. Agr. 17: 174-177. pl. iii. Ap.1930. no.4.
Phyllosticta rabiei.

Nicolas, G. & Aggery, Mlle.
Une attaque intense d'helminthosporiose de l'escourgeon dans la Haute-Garonne en 1929. Rev. Path. Veg. & Entom. Agr. 17: 7-8. Ja.1930. no.1.

Nicolas, G.
Un parasite dangereux pour certains escourgeons. Rev. Path. Vég. & Entom. Agr. 17: 94-96. Mr. 1930. no.3.
Fusarium hordearium.

Petit, A.
Contribution à l'étude de la transmission des rouilles en Tunisie. Rev. Path. Vég. & Entom.. Agr. 17: 29-32. F.1930. no.2.

Wormser, G. & Baratt, H.
Une maladie de l'hevea en Cochinchine (note préliminaire). Rev. Path. Veg. & Entom. Agr. 17: 15-20. 2 pl.(1 col.) F.1930. no.2.
A Gloeosporium and Botryodiplodia theobromae present in all cases.

Sbornik SSU Sortov.-Semen. Upravl. Sakhar. (Bull. P.B.S.G.D. Sugar Trust) (Kiev)

Savitskii, V. F.
K izucheniiu izmenchivosti Beta vulgaris L. (Study of the variability in Beta vulgaris L.) Sbornik SSU Sortov-Semen. Upravl. Sakhar (Bull. P.B.S.G.D. Sugar Trust) 9(17): 1032. 1930.
Russian with English summary.

Non-current indexing (cont.)

Trudy Belorussk. Nauchno-Issled. Sel'sk i Lesn. Khoz. V.I. Lenina (Bull. White Russian Lenin's Inst. Sci. Res. Agr. & For.) (Minsk)

Rego, G.

1. Genotypovaia roz'nitsa geografichnykh grup ras Triticum vulgare Vill.(The genotypical variety of the geographical groups of races of Triticum vulgare Vill.) 2. Da genetyki iachmeniu (Hordeum sativum Jess.) (On the genetics of barley) Trudy Belorussk. Nauchno-Issled. Inst. Sel'sk i Lesn. Khoz. V.I. Lenina (Bull. White Russian Lenin's Inst. Inst. Sci. Res. Agr. ' For.) v.35, no.3. 52 p. 1930.

White Russian with English summaries.

Trudy Sil's'ko-Gaspod. Bot.(Journ. Agr. Bot. Kharkiv)

Burchak-Abramovich, M.

Do poshirennia Azalea pontica L. (Rhododendron flavum Don) u skhidnii Volini (Distribution of Azalea pontica L. (Rhododendron flavum Don) in eastern Volynia). Trudy Sil's'ko-Gospod. Bot. (Journ. Agr. Bot.Kharkiv) 2(2): 229-235. 1929(Rec

Ukrainian.

Chentsov, M.

Zhovti tsigarkovi sorti tiutiuniv naddnistrianshchini (Yellow species of cigarette-tobacco in the Dnister country (with description of morphological signs). Trudy Sil's'ko-Gospod. Bot. (Journ. Agr. Bot. Kharkiv) 2(2): 27-82. illus., map. 1929.

Ukrainian.

Kuksin, M.

Azaliia pontiis'ka (Azalea pontica L.=Rhododendron flavum Don.) na Ukrains'kom polissi (Azalea pontica L. in the Ukrainian polissie district). Trudy Sil's'ko-Gospod. Bot.(Journ. Agr. Bot.Kharkiv) 2(2): 219-228. illus. (map) 1929.

Ukrainian.

Kuz'menko, A

Pro lastoven (Asclepias cornuti Decaisne), iogo rozpovsiudzhennia ta kul'turu na Ukraini (Ueber die schwalbenwurzel (seidenpflanze) Asclepias cornuti Decaisne, ihre verbreitung und ihre kultur in der Ukraine). Trudy Sil's'ko-Gospod. Bot.(Journ. Agr. Bot.Kharkiv) 2(2): 1-26. illus. 1929.

Ukrainian with Russian and German summary.

Non-current indexing. (cont.)

Trudy Sil's'ko-Gospod. Bot. (Journ. Agr. Bot.Kharkiv) (cont.)
Makovets'kii, M.
Kariologichne doslidzhennia Helianthus annuus L. (soiashnika), Helianthus tubersosus L.(volos'koi ripi) ta (Cichorium intybus L. (petrovikh batogiv) (Kariologische untersuchung von Helianthus tuberosus L., Helianthus annuus L. und Cichorium intybus L. (Vorläufiger bericht). Trudy Sil's'ko-Gospod. Bot. (Journ. Agr. Bot. Kharkiv) 2(2): 211-218. illus. 1929
Ukrainian with German summary.

Panshin, B.
Bibliografiia literaturi pro tsukrodaini roslini Bibliographic materials relating to sugar plants) Trudy Sil's'ko*Gospod. Bot. (Journ. Agr. Bot. Kharkiv) 2(2): 145-208. 1929.
Ukrainian.

Prikhod'ko, M.
Materiiali do anatomii kul'turnikh roslin (Contributions to the anatomy of culture-plants (cotton, Gossypium hirsutum L.) Trudy Sil's'ko-Gospod. Bot.(Journ. Agr. Bot.Kharkiv) 2(2): 139-143. illus. 1929.
Ukrainian.

Zapiski Kievsk. Obshch. Estestv. (Mem. Soc. Nat. Kiew)
Chernoiarova, M. V.
O nekotorykh nabliudeniiakh nad iadryshkom v materinskikh kletkakh pyl'tsy u Najas major All. v sviazi s teorieĭ individual'nosti khromozom (Quelques observations sur le nucléole des cellules mères primordialles de Najas major All. en rapport avec la théorie de l'individualité des chromosomes) Zapiski Kievsk. Obshch. Estestv. (Mem. Soc. Nat. Kiew) 27: 51-71. pl.iii-iv. 1929.
Russian with French summary.

Zeitschr.Indukt. Abstamm. u. Vererbungsl. (Leipzig)
Tschermak, E.
Kultur-und wildhaferbastarde und ihre beziehungen zu den sogenannten fatuoiden. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 51: 450-481. 1929. no.3.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY
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Vol. 13, no. 21. Oct.12-24, 1931.

Addisonia (N.Y.)

Addisonia v.16, col. pl. 529-536. S.1931. no.3.

Aneomone hupehensis, Ampelopsis heterophylla, Tagetes lucida, Cephalocereus deeringii, Sabbatia campanulata, Iberis amara, Helianthus cucumberifolius, Lantana sellowiana.

Agr. Engin.

Hardy, E. A.

Machinery for weed control. Agr. Engin. 12: 369-373. illus. O.1931. no.10.

Agr. Gaz. N.S.W. (Sydney)

Birmingham, W.A. & Broadfoot, H.

Black spot or scab of apple. Experiments for its control in New South Wales. II. The Batlow experiments. Agr. Gaz. N.S.W. 42: 721-729. illus. S.1, 1931. no.9.

Darragh, W. H.

Sweet sorghum varieties. Agr. Gaz. N.S.W. 42: 709-714. illus. S.1, 1931. no.9.

Amer. Home (Garden City)

McLean, F. T.

The fragrant gladiolus at last. A new hybrid race that may hold much for the future. Amer. Home 5(5): 378, 414. illus. F.1931.

Connell, E. A.

Trees that fit the roadside. Why waste time and money on trees that are an incumbrance? Amer. Home 5(5): 376, 414. illus. F.1931.

Ann. Mycol. (Berlin)

Blochwitz, A.

Eine mutation von Citromyces luteus. Ann. Mycol. 29: 280-282. 1931. no.3/4.

Ann. Mycol. (cont.)

Ciferri, R.
Mycoflora domingensis exsiccata. (Cent.I, no.1-100). Ann. Mycol. 29: 283-299. 1931. no.3/4.

Sydow, H. & Petrak, F.
Mycromycetes philippinenses. Series secunda. Ann. Mycol. 29: 145-279. 1931. no.3/4.

Ann. Parasit. Humaine et Comp. (Paris)

Toumanoff, C.
Action des champignons entomophytes sur les abeilles. Ann. Parasit. Humaine et Comp. 9: 462-482. illus. S.1, 1931. no.5.

Ann. R. Ist. Sup. Agr. Portici.

Casella, D.
Le forme giovani delle principali specie del genere Citrus. Ann. R. Ist. Sup. Agr. Portici III,4: 166-175. 15 pl. on 7. 1931.

Casella, D.
Le forme giovani di alcune specie della tribù Pomeae. Ann. R. Ist. Sup. Agr. Portici III, 4: 157-165. 9 pl. on 5. 1931.

Casella, D.
Perchè il pianto e la potatura molto preoce determinano ritardo del germoglianto e attenuano il vigore vegetativo della vite. I. Contributo sperimentale. Ann. R. Ist. Sup. Agr. Portici III, 4: 202-220. 1931.

Casella, D.
II trapianto delle specie arboree a radice fittonata. Ann. R. Ist. Sup. Agr. Portici III, 4: 181-201. 4 pl. on 2. 1931.

La Rotonda, C. & Leone, G.
Sulla composizione dei grani Italiani. Ann. R. Ist. Sup. Agr. Portici III,4: 257-278. 1931.

Riccardo, S.
Primo contributo allo studio di una malattia che danneggia le olive in Calabria. Ann. R. Ist. Sup. Agr. Portici III,4: 176-180. 4 pl. on 2. 1931.

Ann. R. Ist. Sup. Agr. Portici (cont.)

Romeo, A.

Ricerche sull'"aborto" del nocciuolo. Ann. R. Ist. Sup. Agr. Portici III,4: 221-225. 1931.

Trotter, A.

Botanica del nocciuolo nel suoi rapporti con la tecnica colturale. Ann. R. Ist. Sup. Agr. Portici III,4: 226-240. 1 pl. 1931.

Ann. Rep. Dept. Agr. Sierra Leone.

Deighton, F. C.

Mycological work. Ann. Rep. Dept. Agr. Sierra Leone 1930: 28-31. 1931.

Arch. Exp. Zellforsch. Gewebezücht.

Heidt, K.

Ueber das verhalten von explantaten der wurzelspitze in nährstoffreien kulturen. Arch. Exp. Zellforsch. Gewebezücht. 11: 693-724. illus. S.22, 1931. no.4.

Biochem. Journ. (London)

Bracewell, M. F. & Zilva, S.S.

Vitamin C in the orange and the grape fruit. Biochem. Journ. 25: 1081-1089. 1931. no.4.

Preece, I. A.

Studies on hemicelluloses. IV. The proximate analysis of box-wood, and the nature of its furfuraldehyde-yielding constituents. Biochem. Journ. 25: 1304-1318. 1931. no.4.

Roscoe, M. H.

The distribution of the vitamin B complex. II. Root vegetables. Biochem. Journ. 25: 1204-1212. 1931. no.4.

Biol. Bull. (Woods Hole, Mass.)

Alexander, G.

The significance of hydrogen ion concentration in the biology of Euglena gracilis klebs. Biol. Bull. 61: 165-184. illus. O.1931. no.2.

Bol. Agr. Sao Paulo.

Hoehne, F. C.

As plantas ornamentaes da flora brasilica e seu papel como factores da salubridade publica, da esthética urbana e artes decorativas nacionaes. (cont.) Bol. Agr. Sao Paulo 31: 953-986. illus. S./O.1930. no.9/10.

Navarro de Andrade, E.

Citricultura. Cavallos para enxertia. Bol. Agr. Sao Paulo 31: 869-884. illus. S./O.1930. no.9/10.

Brotéria Sér. Bot. (Lisboa)

Pujiula, J.

Aplicación de algunos métodos de tinción histológica animal al reino vegetal. Broteria Ser. Bot. 25: 51-64. illus. 1931. no.2.

Experiments with Pinus halepensis & Pirus communis.

Rick, J.

Monographia bolinearum riograndensium. Broteria Ser. Bot. 25: 65-71. 1931. no.2.

Paucithecium albo-nigrum n.sp.

Establishes a new family, Boliniaceae.

Rick, J.

Monographia hellvellinearum riograndensium. Broteria Ser. Bot. 25: 72-76. 1931. no.2.

Rick, J.

Monographia pezizinearum riograndensium. Brotéria Sér. Bot. 25: 77-98. 1931.

Bulet. Cult..si Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) (Bucurest)

Diaconita, I.

Studiul morfologic si biometric al semintelor de Nicotiana tabacum var. ghimpati (Étude morphologique et biométrique des graines de "Nicotiana tabacum" variété "ghimpatzi") Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) 19: 462-498. illus. Jl./S.1930.(Rec'd O.1931) no.3

French summary: p.495-497.

Bulet. Cult. si Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) (cont.)

Feinhals, D. J.
Privire scurta asupra istoriei tutunului. Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) 19: 288-302. illus. Ap./Je. 1930.(Rec'd O.1931) no.2.

Ghimpu, V.
Afectiunile patologice ale tutunului constatate in 1930 in campul institutului si in plantatile din tara. Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) 19: 595-600. O./D. 1930. (Rec'd O.1931) no.4.

Ghimpu, V.
Alternarioza tutunurilor si combaterea ei. (La maladie des tabacs causée par Pleospora alternariae). Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac.) 20: 3-28. illus. pl.i-ii. Ja./Mr.1931 (Rec'd S.) no.1.
French summary: p.25-27.

Ghimpu, V.
Cromozomii tutunului. Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) 19: 283-287. Ap./Je. 1930.(Rec'd O.1931) no.2.

Mihailovici, I.
Puterea de absorbtie a varietatilor de tutun, cultivate in Romania in raport cu propreitatile morfologige si fizologice ale lor. (Puissance d' absorption des varietes de tabac cultivées en Roumanie, par rapport aux propriétes morphologiques et physiologiques). Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac.) 19: 249-260. Ap./Je. 1930.(Rec'd O.1931) no.2.
French summary: p.259-260.

Popov, S.
Etude biométrique et anatomique de la semence du tabac var. "Yaka de suluc" cultivée en Roumanie. Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) 19: 261-282. illus. Ap./Je.1930. (Rec'd O.1931) no.2.

[Bull.] Scient. Ser. Dept. Agr. Straits Settl. Fed. Malay States.
Thompson, A.
Stem-rot of the oil palm in Malaya. [Bull.] Scient. Ser. Dept. Agr. Straits Settl. Fed. Malay States no.6. 23 p. vii pl. 1931.

Bull. Soc. Bot. France (Paris)
Buchet, S.
Un dernier mot sur le "bois périphérique" des ombellifères. Bull. Soc. Bot. France 78: 290-291. S.8, 1931. no.5/6.

Chevalier, A.
Contribution à la flore du Borkou et du Tibesti Bull. Soc. Bot. France 78: 319-324. pl. ii. S.8, 1931. no.5/6.
Tribulus megistopterus tibestiensis var.nov.; Salvia tibestiensis sp.nov.

Cugnac, A.de & Camus, A.
Sur quelques espèces de bromes et leurs hybrides. I. Révision du Bromus maximus Desf. d'après l'etude des peuplements naturels. Bull. Soc. Bot. France 78: 327-341. pl. iii-v. S.8, 1931. no.5/6.

Dangeard, P.
L'Ulvella lens de Drouan et l'Ulvella setchellii sp.Nov. Bull. Soc. Bot. France 78: 312-318. pl. 1. S.8, 1931. no.5/6.

Eig, A.
Quelques faits de la phytogéographie palestinienne précédes par des remarques sur les notions phytogéographiques. Bull. Soc. Bot. France 78: 297-305. S.8, 1931. no.5/6.

Fournier, P.
Sur Nasturtium austriacum, Crantz. Bull. Soc. Bot. France 78: 319. S.8, 1931. no.5/6.

Fournier, P.
Le vrai Zannichellia gibberosa, Rchb. Bull. Soc. Bot. France 78: 292-295. S.8,1931. no.5/6.

Gard, M.
A propos du Phillyrea angustifolia L. Bull. Soc. Bot. France 78: 295-297. S.8, 1931. no.5/6.

Bull. Soc. Bot. France. (cont.)

Léandri, J.

Observations sur les rhizomes à structure anormale de quelques espèces africaines de Gnidia. Bull. Soc. Bot. France 78: 307-312. illus. S.8, 1931. no.5/6.

Bull. Torr. Club.

Bold, H. C.

Life history and cell structure of Chlorococcum infusionum. Bull. Torr. Club 57: 577-604. illus., pl.32-36. D.1930. no.9.

Howe, M. A.

Notes on the algae of Uruguay. Bull. Torr. Club 57: 605-610. pl.37. D.1930(Rec'd O.1931) no.9.

Munz, P. A.

The North American species of Orobanche section Myzorrhiza. Bull. Torr. Club 57: 611-624. pl.38-39. D.1930(Rec'd O.1931) no.9.

Bull. Yale Univ. Sch. For. (New Haven)

Cooper, G. P. & Record, S. J.

The evergreen forests of Liberia. Bull. Yale Univ. Sch. For. no.31. 153 p. xv pl. on 8. map. 1931.

Check list of Bassa, Mendi and English names: p.139-148.

Burma For. Bull. (Bot.Ser.)

Parkinson, C. E.

A note on Burmese lagerstroemias. Burma For. Bull. no.23 (Bot.Ser.3) 17 p. 15 pl. on 8. 1931.

Chem.-Zeit.

Wessel, F.

Schnellmethode zur bestimmung von quecksilber in pflanzenschutzmitteln. Chem.-Zeit. 55: 318. illus. Ap25, 1931. no.33.

Circ. Sci. Sect. Educ. Bur. Amer. Paint Varn. Manuf. Assoc.

Gardner, H. A.

New tung oil plantings. Circ. Sci. Sect. Educ. Bur. Amer. Paint Varn. Manuf. Assoc. 391: 242-257. illus. Jl.1931.

Circ. Sci. Sect. Educ.Bur.Amer.Paint Varn. Manuf. Assoc.(cont.)

Gardner, H. A.
Questions and answers on tung oil production in America. 4th ed. Circ. Sci. Sect. Educ. Bur. Amer. Pain & Varn. Manuf. Assoc. 376: 60-111. illus. Ja.1931.

Compt. Rend. Acad. Sci. Paris.

Daniel, L.
Sur la descendance du soleil annuel greffe sur topinambour. Compt. Rend. Acad. Sci. Paris 193: 473-475. illus. S.28, 1931. no.13.

Grigorakis, L.
Morphologie et cytologie des Actinomyces. Compt. Rend. Acad. Sci. Paris. 193: 540-542. illus. O.5, 1931. no.14.

Contr. Boyce Thompson Inst. Plant Res.

Gonnard, M.H. & Zimmermann, P. W.
The origin of adventitious roots in cuttings of Portulaca oleracea L. Contr. Boyce Thompson Inst. Plant Res. 3: 337-346. illus., pl. i-ii. S.1931. no.3.

Crocker, W. & Barton, L. V.
After-ripening, germination, and storage of certain rosaceous seeds. Contr. Boyce Thompson Inst. Plant Res. 3: 385-404. illus. S.1931. no.3.

Eckerson, S. H.
Seasonal distribution of reducase in the various organs of an apple tree. Contr. Boyce Thompson Inst. Plant Res. 3: 405-412. S.1931. no.3.

Farr, W.K.
Cotton fibers. I. Origin and early stages of elongation. Contr. Boyce Thompson Inst. Plant Res. 3: 441-458. illus. S.1931. no.3.

Flemion, F.
After-ripening, germination, and vitality of seeds of Sorbus aucuparia L. Contr. Boyce Thompson Inst. Plant Res. 3: 413-439. illus. S.1931. no.3.

Holmes, F. O.
Herpetomonas bancrofti n.sp. from the latex of a Ficus in Queensland. Contr. Boyce Thompson Inst. Plant Res. 3: 375-384. illus. S.1931. no.3.

Contr. Boyce Thompson Inst. Plant Res. (cont.)

Miller, L. P.
The effect of treatments with ethylene chlorhydrin on the pH of the expressed juice of potato tubers. Contr. Boyce Thompson Inst. Plant Res. 3: 321-335. S.1931. no.3.

Youden, W. J. & Dobroscky, I. D.
A capillary glass electrode. Contr. Boyce Thompson Inst. Plant Res. 3: 347-362. illus. S.1931. no.3.

Youden, W. J.
A nomogram for use in connection with Gutzeit arsenic determinations on apples. Contr. Boyce Thompson Inst. Plant Res. 3: 363-373. S.1931. no.3.

Zimmerman, P. W., Hitchcock, A. E. & Crocker, W.
The movement of gases into and through plants. Contr. Boyce Thompson Inst. Plant Res. 3: 313-320. illus. S.1931. no.3.
Experiments with ethylene.

Zimmerman, P.W., Hitchcock, A.E. & Crocker, W.
The effect of ethylene and illuminating gas on roses. Contr. Boyce Thompson Inst. Plant Res. 3: 459-481. illus. S.1931. no.3.

Curt. Bot. Mag.

Curt. Bot. Mag. v.155,pt.1.col.pl.9249-9259. O.7, 1931.
Paeonia tomentosa, Salvia jurisicii, Kalanchoë tubiflora, Cyrtanthus epiphyticus, Rhododendron adenogynum, Onosma hookeri wardii, Coelogyne ovalis Acacia fimbriata, Allium amabile, Reevesia pubescens, Rhododendron hypolepidotum.

Desert (Pasadena)

Gates, H. E.
Giant cactus in Lower California. Pachycereus pringlei, Pachycereus pecten-aboriginum. Desert (Pasadena) 3: 63. illus. O.1931. no.6.

Farming South Africa (Pretoria)

Plank, J. E. van der
Exanthema of citrus. Farming South Africa 6: 219-220. illus. S.1931. no.66.

V.13, no.21,p.10.

Farming South Africa (cont.)
Plessis, S. J. du
White mould of onions. Farming South Africa 6: 223. illus. S.1931. no.66.

Field Crop Circ. Prov. Brit. Columbia
Foster, W. R.
Cereal smuts. Field Crop Circ. Prov. Brit. Columbia no.10. 12 p. illus. 1931.

Field Guide Bot. Ser. Milwaukee Publ. Mus.
Smith, H. H.
Mushrooms of the Milwaukee region. Field Guide Bot. Ser. Milwaukee Publ. Mus. no.1. 87 p. incl. plates, table. Je.1931.

Gard. Chron. (London)
Comber, H. F.
Ourisia coccinea and O. elegans. Gard. Chron. III, 90: 295-296. illus. O.10, 1931. no.2337.

Darlington, C. D.
The bearing of chromosome studies on plant breeding. (cont.) Gard. Chron. III, 90: 272-273. illus. O.3, 1931. no.2336.

Friend, H.
Horticulture in relation to commerce. XVI. Gourds and melons. Gard. Chron. III,90: 274. O.3, 1931. no.2336.

Rawes, A. N.
New commercial varieties of fruit. Gard.Chron. III, 90: 296-297. O.10,1931. no.2337.

Redgrove, H. S.
Economic marigolds. Gard. Chron. III, 90: 294-295. O.10, 1931. no.2337.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 90: 293. illus. O.10,1931. no.2337.

Some puzzles of autumn colouration. Gard. Chron. III, 90: 285. O.10, 1931. no.2337.

Gard.Illus. (London)
Williams, A. H.
Yellow tomato grown by an ancient race.
Gard. Illus. 53: 606. illus. O.3,1931. no.2743.
Cultivated by Mudevers in Southern India.

Gartenw. (Berlin)
Löbner, M.
Zur samenbeständigkeit der mutationen.
Gartenw. 35: 533-534. S.25, 1931. no.39.

Helevetica Chim. Acta (Basel)
Karrer, P. & others.
Pflanzenfarbstoffe.XXXV. Zur konstitution des beta-carotins und beta-dihydro-carotins. XXVI. Beitrag zur kenntnis des violaxanthins. XXXVII. Hochmolekulare kohlenwasserstoffe mit zahlreichen methylseitenketten. Helvetica Chim. Acta 14: 1033-1036, 1044-1046, 1194-1204. 1931. no.5.

Hilgardia (Berkeley,Cal.)
Lesley, J. W.
The resistance of varieties and new dwarf races of tomato to curly top (western yellow blight or yellows) Hilgardia 6: 27-44. Ag.1931. no.2.

Indische Cult. (Soerbaja)
Het licht en de plantenteelt. Indische Cult. 16: 553, 555-557. S.1, 1931. no.17.

Isis Budissina (Bautzen)
Richter, K.
Abnorme glockenblume. Isis Budissina 12 (1928/30): 47-48. 1931.

Richter, K.
Ueber blütenmissbildungen und gefüllte blüten an Pirola uniflora. Isis Budissina 12(1928/1930): 44-46. 1931.

Richter, K.
Versuche mit dem fliegenpilz. Isis Budissina 12(1928/30): 41-43. 1931.

V.13, no.21, p.12.

Journ. Agr. Prat. (Paris)

Piédallu, A.

La culture des bambous. Journ. Agr. Prat. 56(2): 293-297. illus. O.10,1931. no.41.

Journ. Agr. Res.(Washington, D.C.)

Beaumont, A.B., Larsinos, G.J., Piekenbrock, P. & Nelson, P.R.

The assimilation of nitrogen by tobacco. Journ. Agr. Res. 43: 559-567. illus. S.15,1931. (O.13) no.6.

Fisher, D.F. & Reeves, E. L.

A Cytospora canker of apple trees. Journ. Agr. Res. 43: 431-438. illus. S.1,1931 (O.8) no.5.

Florell, V. H.

A study of certain characters in wheat back crosses. Journ. Agr. Res. 43: 475-498. S.15, 1931(O.13) no.6.

Garner, W.W. & Allard, H. A.

Duration of the flowerless condition of some plants in response to unfavorable lengths of day. Journ. Agr. Res. 43: 439-443. illus. S.1, 1931 (O.8) no.5.

Ginsburg, J. M.

Penetration of petroleum oils into plant tissues. Journ. Agr. Res. 43: 469-474. S.1, 1931(O.8) no.5.

Mains, E. B.

Inheritance of resistance to rust, Puccinia sorghi, in maize. Journ. Agr. Res. 43: 419-430. illus. S.1, 1931(O.8) no.5.

Neal, D. C. & McLean, L. C.

Viability of strand hyphaea of the cotton root-rot fungus. Journ. Agr. Res. 43: 499-502. illus. S.15, 1931(O.13) no.6.

Rodenhiser, H. A.

Stunting of wheat caused by Tilletia levis and T. tritici. Journ. Agr. Res. 43: 465-468. S.1, 1931(O.8) no.5.

Tapke, V. F.

Influence of humidity on floral infection of wheat and barley by loose smut. Journ.Agr.Res. 43: 503-516. illus. S.15,1931(O.13) no.6.

Journ. Bacteriol. (Baltimore)

Horgan, E. S.
The value of serological tests for the identification of Pseudomonas malvacearum. Journ. Bacteriol. 22: 287-293. O.1931. no.4.

Journ. Biol. Chem.(Baltimore)

Levene, P.A.T. & Schormüller, A.
Chemistry of chromoproteins. I. On the chromophoric group of the Rhodymenia palmata. Journ. Biol. Chem. 93: 571-579. O.1931. no.2.

Journ. Bot. (London)

Alston, A. H. G.
Notes on Selaginella. I. Nomenclatural notes on seven species. Journ. Bot. 69: 251-258. O.1931. no.826.

Baker, E. G. & Exell, A.W.
A new genus of Connaraceae from Tanganyika territory. Journ. Bot. 69: 249-251. illus. O.1931. no.826.
Burttia, B. prunoides.

Barton, W. C. & Riddelsdell, H.J.
Rubus argenteus Wh. & N. forma glandulosa. Journ. Bot. 69: 238-240. S.1931. no.825.
R. cissburiensis n.sp.

Bolus, L.
Novitates africanae. New Iridaceae. Journ. Bot. 69: 258-262. O.1931. no.826.

Dandy, J.E.
Four new Magnolieae from Kwangsi. Journ. Bot. 69: 231-233. S.1931. no.825.
Manglietia aromatica, M. chingii, M. tenuipes, Kmeria septentrionalis.

Exell, A. W.
Combretum borneense Exell, sp.nov. Journ. Bot. 69: 265-266. O.1931. no.826.

Exell, A. W.
Specimens attributed to Bäck in the "Supplementum plantarum". Journ. Bot. 69: 227-230. S.1931.no.825.

Journ. Bot. (cont.)

Mr. John Gossweiler's plants from Angola and Portuguese congo. (cont.) Journ. Bot. 69(suppl.): 161-168. illus. S.1931. no.825.

Ascocarydion gen.nov., A. mirabile (Coleus mirabilis) and several new species.

Rendle, A. B.

Percy Groom (1865-1931) Journ. Bot. 69: 266-267. O.1931. no.826.

Riddelsdell, H. J.

Field notes, chiefly 1930. Journ. Bot. 69: 240-244. S.1931. no.825.

Includes many species of Rubus.

Salmon, C. E.

Carex notes. II. Journ. Bot. 69: 233-237. S. 1931. no.825.

Previously in Journ. Bot. 67: 332-336. D.1929.

Tandy, G.

Notes on phycological nomenclature I. Journ. Bot. 69: 225-227. S.1931. no.825.

Wolley-Dod, A. H.

A revision of the British roses. (cont.) Journ. Bot. 69(suppl.): 73-80, 81-88. S., O., 1931. no.825-826.

Journ. Counc. Sci. Industr. Res. Australia. (Melbourne)

Angell, H.R. & Hill, A.V.

Blue mould of tobacco: longevity of conidia. Journ. Counc. Sci. Industr. Res. Australia 4: 181-184. Ag.1931. no.3.

Angell, H.R. & Hill, A. V.

The longevity of the conidia of certain fungi (Peronosporales) under dry conditions. Journ. Counc. Sci. Industr. Res. Australia 4: 178-181. Ag.1931. no.3.

Dadswell, H. E.

The distribution of lignin in the cell wall of wood. Journ. Counc. Sci. Industr. Res. Australia. 4: 185-186. pl.4. Ag.1931. no.3.

Journ. Counc. Sci.Industr. Res. Australia. (cont.)

Dickson, B.T., Angell, H. R. & Simmonds, J. H.
The control of soft rot (water blister) of pineapples caused by Thielaviopsis paradoxa. Journ. Counc. Sci. Industr. Res. Australia 4: 152-161. pl.2. Ag.1931. no.3.

Trumble, H. C. & Davies, J.G.
The role of pasture species in regions of winter rainfall and summer drought. Journ. Counc. Sci. Industr. Res. Australia 4: 140-151. pl.1. Ag.1931. no.3.

Journ. Hered. (Washington)

Isbell, C. L.
Nematode-resistance studies with pole snap beans. Journ. Hered. 22: 191-198. illus. Je.1931(Rec'd O.) no.6.

Journ. Indian Inst. Sci. (Madras)

Sreenivasaya, M. & Rangaswami, S.
Contributions to the study of spike-disease of sandal (Santalum album, Linn.) XII. Ecology of sandal. Journ. Indian Inst. Sci. 14A: 59-65. 1931. no.5.

Journ. Inst. Brew.(London)

Preece, I. A.
Studies on hemicelluloses [III] The hemicelluloses of brewers' grains. Journ. Inst. Brew. 37: 409-413. Ag.1931. no.8.

Journ. Washington Acad. Sci.

Matlack, M. B.
The juice sac of the orange with some observations on the plastids of citrus. Journ. Washington Acad. Sci. 21: 437-440. illus. O.19, 1931. no.17.

Swallen, J. R.
Two new grasses from Mexico. Journ. Washington Acad. Sci. 21: 436-437. O.19, 1931. no.17.
Panicum transiens; Eragrostis longiramea.

Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwwetensch. (Amsterdam)

Eichinger, A.
Aardappelschurft en bemesting. Landbouwk. Tijdschr. Maandbl. Nederl. Genootsch. Landbouwetensch. 43: 670-683. illus. S.1931. no.523.

Madroño (San Francisco)
Haasis, F. W.
Four- and five-leaved clusters in Monterey pine. Madroño 2: 29-30. S.1931. no.3.

Jepson, W. L.
The botanical explorers of California. VII. Joseph Cook Nevin, William Hillman Shockley, Charles Austin Stivers, Lucia A. Summers. Madroño 2: 25-29. ports. S.1931. no.3.

Jepson, W. L.
Cupressus macnabiana. Madroño 2: 31. S. 1931. no.3.

Meded. Besoek. Proefstat. (Buitenzorg)
Besoekisch proefstation (proefstation voor rubber, koffie en tabak) Java.
Onderzoekingen van phytopathologischen aard. Its Meded. 47 (Verslag over het jaar 1930): 53-60. 1931.
G.A. Reydon phytopatholoog.

Mem. Bot. Surv. So. Africa (Pretoria)
Phillips, J.F.V.
Forest-succession and ecology in the Knysna region. Mem. Bot. Surv. So. Africa no.11. 327 p. plates, tables, maps. 1931.

Nature (London)
Gates, R.R. & Catcheside, D. G.
Origin of chromosome linkage in Oenothera Nature 128: 637. O.10, 1931. no.3232.

Natur. u Mus. (Frankfurt a.M.)
Pauschmann, G.
Betrachtungen über den schachtelhalm (Equisetum). Natur. u. Mus. 61: 297-315. illus. Jl.1931. no.7.

Nature Mag. (Washington,D.C.)
Haskin, L.L.
Plants that catch fish. Indian devices for capturing the trout. Nature Mag. 18: 286-288. illus. N.1931. no.5.
Plants used to stupefy fish.

Northwest Fruit Grower. (Wenatchee)
Reeves, E. L.
Perennial canker rot of apples. Northwest Fruit Grower 3(9): 7,14. illus. S.1931.

North West. Nat. (Arbroath, Scotland)
Hyde, H. A.
The Welsh National Herbarium. North West Nat. 6: 135-139. S.1931. no.3.

Murray, J.
Cumberland mosses (cont.) North West Nat. 6: 166-167. S.1931. no.3.

Oklahoma For. Serv. Publ.
Mattoon, W.R., Phillips, G. R. & Gibbs, F.J.
Forest trees of Oklahoma, how to know them. A pocket manual. Oklahoma For. Serv. Publ. no.1. (Repr. no.2) 116 p. illus. N.1930.

N.Y. State Coll. For. Techn. Publ. (Syracuse)
Harlow, W. M.
The identification of the pines of the United States, native and introduced, by needle structure. N.Y. State Coll. For. Techn. Publ. 32. 21 p. 19 pl. Ap.1931(Rec'd O.)

Orchid Rev. (Richmond, England)
Thurgood, F. W.
Brazilian and Colombian Miltonias. Orchid Rev. 39: 307-309. O.1931. no.460.

Parks & Recreation (Rockford, Ill.)
Pyle, R.
A report on botanical gardens and arboreta. Parks & Recreation 15: 56-60. O.1931. no.2.

Pharm. Acta. Helv. (Zürich)
Casparis, P. & Haas, K.
Equisetonin, das saponin aus Equisetum arvense. Pharm. Acta Helv. (Zürich) 6: 181-187. S.26, 1931. no.9.

Flück, H.
Der diagnostische wert der spaltöffnungsgrössen offizineller blätter. (concl.) Pharm. Acta Helv. (Zürich) 6: 187-194. S.26, 1931. no.9.

V.13, no.21, p. 18.

Philipp. Agr.(Los Baños)

Espino, R. B. & Palisoc, E.
Tolerance of young rice plants to relatively large amounts of magnesium sulfate contained in complete culture solution. Philipp. Agr. 20: 269-286. S.1931. no.4.

Roldan, E. F.
A bacterial stem-rot of hybrid cane seedlings hitherto unreported. Philipp. Agr. 20: 247-260. pl.i-v. S.1931. no.4.
Bacillus sacchari.

Philipp. Journ. Sci. (Manila)

Copeland, E. B.
New or interesting oriental ferns. Philipp. Journ. Sci. 46: 209-220. O.1931. no.2.

Humphrey, C. J.
Decay of wood in automobiles in the tropics. Philipp. Journ. Sci. 46: 189-196. 2 pl. O.1931. no.2.

Santos, J. K.
Leaf and seed structure of a Philippine Coriaria. Philipp. Journ. Sci. 46: 257-268. pl.1-4. O.1931. no.2.
Coriaria intermedia.

Phytopath.

Anderson, B. A.
The toxicity of water-soluble extractives of western yellow pine to Lenzites sepiaria. Phytopath. 21: 927-940. illus. O.1931. no.10.

Barnett, L. C.
Seed-treatment and date-of-sowing experiments with six varieties of flax. Phytopath. 10:985-989. O.1931. no.10.

Ezekiel, W.N., Neal, D.C., Dawson, P.R. & Reynolds, E.B.
Report of the fourth annual cotton-root-rot conference. Phytopath. 10: 957-964. O.1931. no.10.

Harter, L. L. & Zaumeyer, W.J.
Pythium butleri - the cause of a bean wilt. Phytopath. 10: 991-994. O.1931. no.10.

Phytopath. (cont.)

Johnson, E. M. & Valleau, W. D.
Blackleg of tobacco seedlings. Phytopath. 10: 973-978. illus. O.1931. no.10.
Organism similar to, if not identical with, Bacillus aroideae.

Kendrick, J. B.
Seed transmission of cowpea Fusarium wilt. Phytopath. 10:979-983. illus. O.1931. no.10.

Leonian, L. H.
Heterothallism in Phytophthora. Phytopath. 10: 941-955. illus. O.1931. no.10.
P. omnivora.

Zeller, S. M. & Deremiah, J. W.
An anthracnose of Ledum caused by a species of Elsinoë. Phytopath. 10: 965-972. illus. O.1931. no.10.
E.ledi (Aulographum ledi) on L. glandulosum.

Phytopath. Zeitschr. (Berlin)

Beyma thoe Kingma, F. H. van & Hell, W. F. van
Ueber die Botrytiskrankheiten der lilien. Phytopath. Zeitschr. 3: 619-632. illus. 1931. no.6.

Gassner, G. & Hassebrauk, K.
Untersuchungen über die beziehungen zwischen mineralsalzernährung und verhalten der getreidepflanzen gegen rost. Phytopath. Zeitschr. 3: 535-617. illus. 1931. no.6.

Poona Agr. Coll. Mag. (Poona City)

Gokhale, V. G., Bhosekar, V. L. & Patwardhan, S.K.
Improvement of nagli (Eleusine coracana) in the Bombay Deccan. Poona Agr. Coll. Mag. 23: 78-91. illus.,(map) S.1931. no.2.

Proc. Biol. Soc. Washington.

Killip, E. P.
Plants recently discovered on Plummers Island as a result of low water conditions. Proc. Biol. Soc. Washington 44: 111-115. O.17, 1931.

Proc. Iowa Acad. Sci. (Des Moines)

Adams, R. P.
Notes on Iowa grasses. Proc. Iowa Acad. Sci. 37(1930): 91-94 [1931]

Blagg, B.
Additional notes on Iowa mosses - 1929-30. Proc. Iowa Acad. Sci. 37(1930): 96-98. [1931]

Cavanagh, L. M.
Abnormal flowers of Populus grandidentata Michx. Proc. Iowa Acad. Sci. 37(1930): 115-116. illus. [1931]

Cavanagh, L. M.
Notes on Iowa mosses. II. Proc. Iowa Acad. Sci. 37(1930): 98-100. [1931]

Cratty, R. I.
Iowa plant notes, IV. Proc. Iowa Acad. Sci. 37(1930): 87-90. [1931]

Davis, W. H.
Single spore isolation. Proc. Iowa Acad. Sci. 37(1930): 151-159. [1931]

Hershey, A. L. & Martin, J. N.
Development of the vascular system of corn. Proc. Iowa Acad. Sci. 37(1930): 125-126. [1931]

Hershey, A. L. & Pammel, L. H.
Study of the weeds of alfalfa fields of Iowa. Proc. Iowa Acad. Sci. 37(1930): 77-85. [1931]

Johns, M. R.
Heliantheae of Iowa II. Proc. Iowa Acad. Sci. 37(1930): 161-208. illus. [1931]

Loehwing, W. F.
The effect of light intensity on tissue fluids in wheat. Proc. Iowa Acad. Sci. 37(1930): 107-110. [1931]

Pammel, L. H. & King, C. M.
Germination and seedling forms of some woody plants. Proc. Iowa Acad. Sci. 37(1930): 131-141 illus. [1931]
Forms no. 13 of their Contribution on the germination of woody plants.

Proc. Iowa Acad. Sci. (cont.)

Pammel, L. H.
Some weeds of Iowa, Florida, lower Rio Grande Valley, Cuba and India compared. Proc. Iowa Acad. Sci. 37(1930): 143-149. [1931]

Smith, F. D.
Identification of Symphoricarpus occidentalis. Proc. Iowa Acad. Sci. 37(1930): 127-130. illus. [1931]

Stanley, A. R.
Notes on some Iowa cladonias. Proc. Iowa Acad. Sci. 37(1930): 95-96. [1931]

Watt, J. R.
Simultaneous development of the seed coat and embryo in the seeds of sweet clover. Proc. Iowa Acad. Sci. 37(1930): 117-123. illus. [1931]

Watt, J. R. & Martin, J. N.
Polyembryony in alfalfa and sweet clover. Proc. Iowa Acad. Sci. 37(1930): 100. [1931]

Wilson, G. W.
Noteworthy Iowa fungi. Proc. Iowa Acad. Sci. 37(1930): 111-114. [1931]

Proc. Roy. Soc. Ser. B.(London)

Catcheside, D. G.
Critical evidence of parasynapsis in Oenothera. Proc. Roy. Soc. Ser. B. 109: 165-184. illus. O.2, 1931. no.761.

Gates, R. R. & Goodwin, K. M.
Meiosis in Oenothera purpurata and Oe. blandina. Proc. Roy. Soc. Ser. B.109: 149-164. pl.16-18. O.2, 1931. no.761.

Hurst, C. C.
Embryo-sac formation in diploid and polyploid species of Roseae. Proc. Roy. Soc. Ser. B. 109: 126-148. pl.10-15. O.2,1931. no.761.

Protoplasma (Leipsig)

Collander, R., Turpeinen, O. & Fabritius, E.
Die permeabilität der Rhoeo-zellen für ammoniak und essigsäure. Protoplasma 13: 348-362. illus. Ag.1931. no.2.

Protoplasma (cont.)

Malhotra, R. C.
Periodic permeability of iodine solution and water in the protoplasma of Zea mays seeds. Protoplasma 13: 374-388. illus. Ag.1931. no.2.

Prát, S.
Ueber vitalfärbung der meeresalgen. Protoplasma 13: 397-401. illus. Ag.1931. no.2.

Publ. Field Mus. Nat. Hist. Bot. Ser.

Macbride, J. F.
Spermatophytes, mostly Peruvian, IV. Publ. Field Mus. Nat. Hist. 291 Bot. Ser. 11: 39-69. Jl.29, 1931.
New Cyperaceae - Monocotyledons, mostly Scitamineae - Other plants, chiefly Moraceae.

Queensl. Agr. Journ. (Brisbane)

White, C. T.
Queensland weeds. White root (Lobella purpurascens). Queensl. Agr. Journ. 36: 270. pl.62. S.1, 1931. no.3.

Rapp. Fonct. Inst. Rech. Agron. France.

France. Institut des recherches agronomiques.
Pathologie végétale. In its Rapp. Fonct. 9(1930): 411-445. My.1931.

Rep. Dept. Sci. & Agr. Barbados.

Wiles, D. R.
Report of plant diseases inspector for the year 1930/31. Rep. Dept. Sci. & Agr. Barbados. 1930/31: 98-101. 1931.
Sugar cane mosaic - Gumming disease of sugar cane 9 Inspections under the cotton diseases prevention act.

Res. Bull. Dept. For. & Waters. Penn.

Illick, J. S. & Aughanbaugh, J. E.
Pitch pine in Pennsylvania. Res. Bull. Dept. For. & Waters Penn. no.2. 108 p. illus. 1930.
P. rigida.

Shaw, T. E.
Woody plants of the Mont Alto state forest, native and introduced. Res. Bull. Dept. For. & Waters Penn. no.3. 31 p. 1930.

Res. Bull. Agr. Exp. Stat. So. Manchuria Railw. Co.

Tsukunaga, K., Ohara, H. & Nishino, T.
On the chemical properties of Manchurian soy bean classified by the colour of seed coats and their hilums. Res. Bull. Agr. Exp. Stat. So. Manchuria Rail. Co. 2: 1-19. Ja.1931(Rec'd O.)
Japanese.

Tsukunaga, K.,& Tanaka, S.
On the effect of tillantin, uspulun and "sokuhi-so". Res. Bull. Agr. Exp. Stat. So. Manchuria Railw. Co. 1: 45-54. N.1930(Rec'd O.1931)
Japanese.

Tsukunaga, K.
On the influence of soil moisture on plant-growth. Res. Bull. Agr. Exp. Stat. So. Manchuria Railw. Co. 1: 31-44. pl., diagr. N.1930(Rec'd O.1931)
Japanese.

Watanabe, R. & Yasaka, T.
Studies on the time of fruit-bud formation and development of apples in Manchuria. Res. Bull. Agr. Exp. Stat. So. Manchuria Railw. Co. 1: 1-30. 7 pl., 5 diagrs. N.1930(Rec'd O.1931)
Japanese, with English Summary.

Rev. de Agr. (Piracicaba)

Gonçalves, R. D.
Liquido para conservaçao de plantas destinadas a mostruario. Rev. de Agr. (Piraciciba) 6: 315-316. Jl./Ag. 1931. no.7/8.

Meyer, A. C.
Estudos sobre as variedades de canna. Rev. de Agr. (Piracicaba) 6: 321-324. Jl./Ag.1931. no.7/8.

Vellasco, E.
A biometrica nos estudos de genetica (Commentarios á margem do trabalho do professor Carlos Teixeira Mendes). Rev. de Agr. (Piracicaba) 6: 317-320. Jl./Ag. 1931. no.7/8.

Rev. Gén. Bot. (Paris)

Eichhorn, A.

Sur le devenir des principaux éléments nucléaires au cours de la mitose. Rev. Gén. Bot. 43: 401-423. S.1931. no.513.

Hagene, P.

Recherches écologiques sur quelques groupements végétaux des environs de Dijon. (cont.) Rev. Gén. Bot. 43: 424-463. S.1931. no.513.

Rev. Hort. (Paris)

Jarry-Desloges, R.

Zizyphus sativa et jujubiers de diverses variétés. Rev. Hort. 103: 509-511. illus. S.16, 1931. no.21.

Rhodesia Agr. Journ. (Salisbury)

Stent, S. M.

Some poisonous plants of Southern Rhodesia. Rhodesia Agr. Journ. 28: 811-820. S.1931. no.9.

Rhodora (Boston)

Anderson, W. A.

Holosteum umbellatum in Rhode Island. Rhodora 34: 211. O.1931. no.394.

Eaton, R. J.

Notes on Lycopodium inundatum and its allies in the Western Hemisphere. I- Rhodora 34: 201-203. O.1931. no.394.

I. A new variety of Lycopodium inundatum [L. in undatum var. robustum]

Fernald, M. L.

Potamogeton tenuifolius Raf. Rhodora 34: 209-211. O.1931. no.394.

Graustein, J. E.

A color variation in Potentilla tridentata. Rhodora 34: 211. O.1931. no.394.

Potentilla tridentata aurora, f. aurora.

Henderson, L. F.

New plants from Oregon. Rhodora 34: 203-206. O.1931. no.394.

Rhododendron leachianum, Navarretia savagei, n.spp.

Rhodora. (cont.)
Kennedy, R. B.
Further notes from southwestern Newfoundland. Rhodora 34: 207-209. pl.216-217. O.1931. no.394.
Rubus kennedyanus, n.sp., R. pergratus terraenovae, n.var.

Science (Lancaster)
Raines, M. A.
A dilatometer for measuring the swelling of seeds. Science 74: 392-393. illus. O.16, 1931. no.1920.

Science News Letter.
Pine tar oil spray kills insects and checks fungi. Science News Letter 20: 270. O.24, 1931. no.550.
Conclusions drawn from study of subject by Dr. E. R. De Ong of San Francisco.

Scient. Agr. (Ottawa)
Dillon Weston, W. A. R.
The effect of ultra-violet radiation on the urediniospores of some physiologic forms of P. graminis tritici. Scient. Agr. 12: 81-87. O. 1931. no.2.

Scient. Amer. (N.Y.)
Munn, O. D.
United States plant patent no. 1. Scient. Amer. 145: 303. illus. N.1931. no.5.

Sci. Prof. Roy. Dublin Soc.
Atkins, W.R.G. & Poole, H.H.
Photo-electric measurements of illumination in relation to plant distribution. Part 4. Changes in the colour composition of daylight in the open and in shaded situations. Sci. Proc. Roy. Dublin Soc. 20: 13-48. Jl.1931. no.1/7.

Dixon, H.H. & Dixon, G. J.
The exudation of water from the leaf-tips of Colocasia antiquorum, Schott. Sci. Proc. Roy. Dublin Soc. 20: 7-10. illus. Jl.1931. no.1/7.

Gorman, M. J. & Lafferty, H. A.
On a method of distinguishing the seedlings of Swedish turnip (Brassica napus L. var. napobrassica (l).) Reichb.) from those of rape (Brassica napus L. var. biennis (Schübl. et Mart.) Reichb.) Sci. Proc. Roy. Dublin Soc. 20: 119-124. pl.3. S.1931. no.8/12.

Sinensia Contr. Metrop. Mus. Nat. Hist. Nanking.
Tai, F. L.
Observations on the development of Myriangium bambusae Rick. Sinensia Contr. Metrop. Mus. Nat. Hist. Nanking 1: 147-164. illus. Ap.1931. no.10.

Sitzungsb. Akad. Wiss. Wien. Matn.-Naturw. Kl. Abt.I.
Felber-Pisk, I.
Ueber das wachstum isolierter wurzeln. Sitzungsb. Akad. Wis. Wien Math.-Naturw. Kl. Abt. 1. 140: 67-82. 1931. no.1/2.

Fritsch, K.
Beiträge zur kenntnis der gesneriaceen. III. Der blütenstand von Haberlea rhodopensis Friv. Sitzungsb. Akad. Wiss. Wien. Math.-Naturw. Kl. Abt. 1. 140: 169-181. illus. 1931. no.3/4.

Hofmann, E.
Die frucht von Aspidosperma megalocarpon (Müll.) Arg. und ihr öffnungsmechanismus. Sitzungsb. Akad. Wiss. Wien. Math.-Naturw. Kl. Abt.1. 140: 83-88. ii pl. 1931. no.1/2.

Pongračič, O.
Beiträge zur anatomie der gesneriaceen. Sitzungsb. Akad. Wiss. Wien Math.-Naturw. Kl. Abt.1. 140: 183-218. illus., i pl. 1931. no.3/4.

Sitzungsb. Naturf. Ges. Univ. Tartu. (Tartus)
Lepik, E.
Beiträge zur nomenklatur der ostbaltischen pilzflora II. Revision der "Plantarum florae balticae cryptogamarum" von H. A. Dietrich, cent. I, Revaliae, 1852. Sitzungsb. Naturf. Ges. Univ. Tartu 37: 239-259. 1931. no.3/4.

Lepik, E.
Tycho Vestergren. Sitzungsb. Naturf. Ges. Univ. Tartu 37: 260-264. port. 1931. no.3/4.
German translation: p.262-263.

Solowsky, H. P.
Das aufrichten der blätter der silberlinde (Tilia argentea Desf.) im zusammenhange mit der beleuchtung der blühenden zweige. Sitzungsb. Naturf. Ges. Univ. Tartu 37: 311-315. illus. 1931. no.3/4.

Sitzungsb. Naturf. Ges. Univ. Tartu (cont.)

Solowsky, H. P.

Nutation der sprosse des spargels (Asparagus sprengeri Rgl.) Sitzungsb. Naturf. Ges. Univ. Tartu 37: 316-321. illus. 1931. no.3/4.

Talts, J.

Erregungspotentiale bei Beta vulgaris L. Sitzungsb. Naturf. Ges. Univ. Tartu 37: 265-310. illus. 1931. no.3/4.

Soil Sci. (Baltimore)

Thorp, J.

The effects of vegetation and climate upon soil profiles in northern and northwestern Wyoming. Soil Sci. 32: 283-297. illus., pl.1-2. O.1931. no.4.

So. African Gard. (Johannesburg)

Bolus, L.

Malagash lily, Ammocharis falcata, Herb. So. African Gard. 21: 244,260. col.illus. S.1931. no.9.

Bolus, L.

Plants new and noteworthy. So. African Gard. 21: 247. illus. S.1931. no.9.

Cotyledon herrei n.sp.

Succulenta (Leeuwarden)

Houten, J. M. van den.

Aloë's. VII. Zuid-Afrikaansche aloë's. by J.C. van Balen. Succulenta 13: 193-198. O.1931. no.10.

Svensk Bot. Tidskr.

Brenner, W.

Ueber das verhalten einiger nordischen pflanzen zur bodenreaktion. Svensk Bot. Tidskr. 25: 147-173. 1931. no.2.

Foegri, K.

Ueber eine eigentümliche form von Polygonatum verticillatum. Svensk Bot. Tidskr. 25: 273-274. illus. 1931. no.2.

P. verticillatum profilerum.

Svensk Bot. Tidskr. (cont.)

Hasselberg, G.B.E.
The vascular system in the stem-axis of the genus Fagraea. Contributions to the anatomy of the Loganiaceae. Svensk. Bot. Tidskr. 25: 229-237. illus. 1931. no.2.

Heilborn, O.
Användning av jämförelsetal vid kvantitativ anatomisk undersökning av växtpulver. (Verwendung von vergleichszahlen bei quantitativer anatomischer untersuchung von pflanzenpulvern). Svensk. Bot. Tidskr. 25: 185-201. illus. 1931. no.2.
German summary: p.199-201.

Heilborn, O.
Studies on the taxonomy, geographical distribu-
6 tion and embryology of the genus Siparuna Aubl. Svensk Bot. Tidskr. 25: 202-228. illus. 1931. no.2.
Siparuna ecuadorica, S. piloso-lepidota n.spp.

Junell, S.
Die entwicklungsgeschichte von Circaester agrestis. Svensk. Bot. Tidskr. 25: 238-270. illus. pl.i-ii. 1931. no.2.

Vrang, E. P.
Lichenes insulae Torsö. Redogörelse för några lichenologiska iakttagelser sommaren 1930 a den i vänern belägna ön Torsö. Svensk. Bot. Tidskr. 25: 174-184. 1931. no.2.

K. Svenska Vetenskapsakad. Arsbok.

Samuelsson, G.
Erik Leonard Ekman. 1883-1931. K. Svenska Vetenskapsakad. Arsbok. 1931: 353-376. port. 1931.
Utdrag ur brev fran Dr. R. Ciferri: p.372-376.

Tectona (Buitenzorg)

Berger, L.G. den & Bianchi, A.T.J.
Over het voorkomen van eenige bijzondere kenmerken bij Nederlandsch Indische houtsoorten. (On the occurence of some characteristic features in Dutch East Indian woods). Tectona 24: 894-903. Ag./S.1931. no.8/9.
English summary: p.902-903.

Tectona (cont.)

Coster, C.

Bijdrage tot de bloembiologie van den djati (Tectona grandis L.f.) (Beitrag zur blütenbiologie des teak (Tectona grandis L.f.) Tectona 24: 768-792. illus. Ag./S. 1931. no.8/9.

German summary: p.790-792.

Trans. & Proc. Roy. Soc. So. Austr.

Black, J.M.

Additions to the flora of South Australia no.28. Trans. & Proc. Roy. Soc. So. Austr. 54: 59-61. pl.iv. D.20,1930(Rec'd).1931)

Triodia longiceps, Swainsonia dictyocarpa, n.spp.

Cleland, J. B.

Notes on the flora north-west of Port Augusta between Lake Torrens and Tarcoola. Trans. & Proc. Roy. Soc. So. Austr. 54: 140-147. pl.v-vii,map. D.20,1930(Rec'd 0.1931)

Rogers, R. S.

Contributions to the orchidology of Papua and Australia. Trans. & Proc. Roy. Soc. So. Austr. 54: 37-46. D.20,1930(Rec'd 0.1931)

Describes a number of new species.

Wood, J. G.

An analysis of the vegetation of Kangaroo Island and the adjacent peninsulas. Trans. & Proc. Roy. Soc. So. Austr. 54: 105-139. illus. (maps) D.20,1930(Rec'd 0.1931)

Appendix. A list of species found in the Gulf. region, p.127-137.

Trop. Agr.

Murray, R. K. S.

Further sulphur dusting experiments against Oidium. Trop. Agr. 77: 112-119. pl.i-ii. Ag.1931. no.2.

U.S. Dept. Agr. Techn. Bull.

Baxter, D.V. & Gill, L.S.

Deterioration of chestnut in the southern Appalachians. U.S. Dept. Agr. Techn. Bull. 257. 21 p. 4 pl. O.1931.

Verh. Bot. Ver. Prov. Brandenb. (Berlin-Dahlem)

Hein, L.
Beiträge zur postglazialen waldgeschichte Norddeutschlands. Pollenanalysen aus märkischen moore. Verh. Bot. Ver. Prov. Brandenb. 73: 5-83. 4 fold. tab. Mr.30, 1931(Rec'd O.) no.1.

Laubert, R.
Mykologische und floristische notizen aus Sylt. Verh. Bot. Ver. Prov. Brandenb. 72: 98-108. D.31, 1930(Rec'd O.1931) no.2.

Libbert, W.
Zweiter beitrag zur flora der nördlichen Neumark. Verh. Bot. Ver. Prov. Brandenb. 72: 77-92. D.31, 1930(Rec'd O.1931) no.2.

Melchior, H.
Centaurea trichocephala M.B., eine neue adventivpflanze Deutschlands. Verh. Bot. Ver. Prov. Brandenb. 72: 149-150. D.31,1930(Rec'd O.1931) no.2.

Rothmaler, W.
Die formen der Anemone intermedia Winkler (Anemone nemorosa x ranunculoides). Verh. Bot. Ver. Prof. Brandenb. 72: 162-164. 1 pl. D.31, 1930(Rec'd O.1931) no.2.

Schalow, E.
Ueber ein neues vorkommen von Scirpus mucronatus L. im östlichen Deutschland. Verh. Bot. Ver. Prov. Brandenb. 72: 92-97. D.31,1930(Rec'd O.1931) no.2.

Schulz-Korth, K.
Lichenologische beobachtungen bei Leuenberg (Oberbarnim) Verh. Bot. Ver. Prov. Brandenb. 73: 90-94. Mr.30, 1931(Rec'd O.) no.1.

Ulbrich, E.
M.C.L. Wittmack. 26 September 1839- 2 Februar 1929. Verh. Bot. Ver. Prov. Brandenb. 72:157-161. D.31,1930(Rec'd O.1931) no.2.

Ulbrich, E.
Ueber alter, dickenwachstum und Fammes-befall einer rotbuche (Fagus silvatica L.) am faulen ort in der Gramzower forst. Verh. Bot. Ver. Prov. Brandenb. 72: 109-113. D.31,1931 (Rec'd O.1931) no.2.

Verh. Bot. Ver. Prov. Brandenb. (cont.)
Wangerin, W.
Beiträge zur kenntnis der verbreitung der gefässpflanzen im nordostdeutschen flachlande. IV. Verh. Bot. Ver. Prov. Brandenb. 72: 119-139. D.31, 1930 (Rec'd O.1931) no.2.

Vict. Nat. (Melbourne)
Coleman, E.
The pollination of Corysanthes bicalcarata (R.Br.) Vict. Nat. 48: 95-99. illus. S.1931. no.5.

Lucas, A. H. S.
The caulerpas of Victoria. Vict.Nat. 48: 84-93. illus. S.1931. no.5.

Zeitschr. Forst.8 u. Jagdw. (Berlin)
John, G.
Bodenreaktion und wachstum der blauen perennierenden lupine (Lupinus polyphyllus) I- Zeitschr. Forst- u. Jagdw. 63: 493-510. S.1931. no.9.

Der Züchter. (Berlin)
Gassner, G. & Rabien, H.
Ueber die durchführung der forsthärteprüfungen von getreidezuchtstämen. Der Züchter 3: 297-300. illus. S.1931. no.9.

Heel, J. P. D. van
Die genetischen faktoren für anthocyanbildung bei zuckerrüben. Der Züchter 3: 302-304. S. 1931. no.9.

Hudson, P. S.
Zuckerrohrzüchtung im Britischen reich. Der Züchter 3: 281-286. illus. S.1931. no.9.

Exper. Stat. Publ.
Idaho agricultural experiment station.
Plant pathology. Work and progress Idaho Agr. Exp. Stat. 1930(Its Bull.179): 33-35. Je.1931. (Rec'd O.)
C. W. Hungerford pathologist.

Cleveland, C. R.
The relation of insects to the transmission of potato leafroll and tomato mosaic in Indiana. Indiana Agr. Exp. Stat. Bull. 351. 24 p. illus. Ap.1931(Rec'd O.)

Exper. Stat. Publ. (cont.)

Haddad, E. S.
Morphological development of sweet corn pericarp in two inbred lines and their F_1 hybrids. Indiana Agr. Exp.Stat. Bull.347. 24 p. illus. Mr.1931(Rec'd O.)

Lindstrom, E. W.
Genetic tests for linkage between row number genes and certain qualitative genes in maize. Iowa Agr. Exp. Stat. Res. Bull. 142: 251-288. Je. 1931(Rec'd O.)

Emmert, E.M.
The effect of soil reaction on the growth of tomatoes and lettuce and on the nitrogen, phosphorus and manganese content of the soil and plant. Kentucky Agr. Exp. Stat. Bull. 314. 83 p. illus. Mr.1931(Rec'd O.)

Aldrich, W. W.
Effect of fall applications of sodium nitrate upon the color,keeping quality and nitrogen content of apples. Maryland Agr. Exp. Stat. Bull. 326: 363-405. Mr.1931.

Nelson, R.
Hot water treatment kills eelworm in galls on plant roots. Mich. Agr. Exp. Stat. Quart. Bull. 14: 10-16. illus. Ag.1931(Rec'd O.) no.1.
Caconema on peony.

Daane, A.
Linkage relations in barley. Minnesota Agr. Exp. Stat. Tech. Bull. no.78. 30 p. Ag.1931.

Whitcomb, W. O.
Hard seeds in legumes. Interpretation of their value and methods of treatment. Montana Agr. Exp. Stat. Bull.248. 63 p. illus. Jl.1931.

New Jersey agricultural experiment station - Dept. of plant pathology.
Miscellaneous diseases of rhododendrons. Its Nursery Dis. Notes v.4, no.3. 4 p. S.1931.
Mimeographed.

Exper. Stat. Publ. (cont.)

Clayton, E. E.
Vegetable seed treatment with special reference to the use of hot water and organic mercurials. New York Agr. Exp. Stat. Techn. Bull. 183. 43 p. illus. Ag.1931(Rec'd O.)

Van Eseltine, G. P.
Variation in the Lima bean Phaseolus lunatus L., as illustrated by its synonomy. New York Agr. Exp. Stat. Techn. Bull. 182. 24 p. illus., col.pl. Jl.1931(Rec'd O.)

Wiggin, W. W.
The propagation of flowers by cuttings and seeds. Ohio Agr. Exp. Stat. Bull. 487. 37 p. illus. S. 1931.

Pennsylvania agricultural experiment station - Dept. of botany.
[Report] In its Ann. Rep. 44(1930/31): 16-19. illus. Jl.1931(Rec'd O.)

Hansen, N. E.
Evergreens in South Dakota. South Dakota Agr. Exp. Stat. Bull.254. 33 p. illus. O.1930.

Hansen, N. E.
The ornamental trees of South Dakota. South Dakota Agr. Exp. Stat. Bull. 260. 63 p. illus. Ap.1931(Rec'd O.)

State Publications.

Campbell, H. W.
The whorled milkweed as a poisonous plant for poultry. Month. Bull. Dept. Agr. Calif. 20: 577-582. illus. Ag.1931. no.8.
Asclepias mexicana.

Lungren, E. A. & Stewart, G.
"Bust" the rust. Colorado Agr. Coll. Ext. Serv. Circ. 70-A. [3] p. illus. My.1931(Rec'd O.)

Rollins, H.A.
Practical spraying for better apples in 1931. Conn. Agr. Coll. Ext. Serv. Circ. 33. 5 fold. leaves. illus. F.1931 (Rec'd O.)

State Publications (cont.)

Porter, R. H.
Weeds and their control. Iowa State Coll. Agr. & Mech. Arts Ext. Bull. 171. 32 p. illus. Mr.1931(Rec'd O.)

Morris, H. E. & Kidder, W.
Control of smut in wheat and other small grains. Montana State Coll. Ext. Serv. Bull. 116. 11 p. illus. Je.1931(Rec'd O.)

Beath, O. A.
Poisonous plants of Wyoming. Wyoming Ext. Serv. Circ. 37. 35 p. illus. My.1931(Rec'd O.)

Sabin, D. R.
Wyoming weeds and their control. Wyoming Ext. Serv. Circ. 33. 40 p. illus. F.1931(Rec'd O.)

New Books.

Backer, C. A.
Onkruidflora der Javasche suikerrietgronden. Afl. 4. (index) [1931]
Includes vernacular names.

Barrett, M. F.
A field key to the genera of the wild and cultivated hardy trees of the northeastern United States and Canada. Bloomfield, N. J., 1931.

Bennett, G. W. & Pedley, H.
Report on investigations in the Cherry County Lakes. Lincoln, Nebr., F.1931.
Distribution of vegetation: p.56-75.

Bronsart, H.von
Bodenmüdigkeit, ihre ursachen und bekämpfung. Neudamm, J. Neumann, 1931.

Dahl, C. G. & Johansson, E.
Handledning i besprutning av fruktträd och bärbuskar, 6 upplagan. Malmö, Skånetryckeriet, 1931.

Dix, W.
Praktische pflanzenzucht auf theoretischer grundlage. Neudamm, J. Neumann, 1931.

New Books (cont.)

Fahmy, T.
Étude de la pénétration du champignon Fusarium vasinfectum (Atk.) var. aegyptiacum T. Fahmy dans les racines du cotonnier. Genève, Imprimerie Jent, 1930.

Galenieks, P.
Botanika. Riga, 1924.

Grossheim, A. A.
Sketch of the vegetation of Transcaucasia: Azerbaidjan, Armenia and Georgia. 8 fold.maps. Tiflis, 1930.

Honcamp, F.
Pflanzenernährung... Berlin, J. Springer, 1931. (Handbuch der pflanzenernährung und düngerlehre 1. bd.)

International botanical congress, 5th, Cambridge, England, August, 1930.
Report of proceedings... Cambridge, University press, 1931.

Kötter, W. H. M.
Normale und anomale fruchtbildung bei Juniperus communis L., ein beitrag zur morphologie, entwicklung und anatomie der wacholderbeeren (fructus juniperi) Hamburg, 1931.

Kremers, E.
Phytochemistry. I Madison, Wisc., 1931. (Bulletin of the University of Wisconsin, Ser.no.1732, Gen.ser. no. 1506)

Laar, J. H. J. van de
Onderzoekingen over Ophiobolus graminus Sacc. en Ophiobolus herpotrichus (Fr.) Sacc. en over door deze fungi verdorzaakte ziekten van Triticum vulgare Vill. en andere Gramineae. Wageningen, H. Veenman & zonen, 1931.
French resume: p.119-125.

New Books (cont.)

Ledoux, P.
Etudes sur la flore du Bas-Amazone (État de Pará-Brésil) I. Sur la structure de l' appareil végétatif aérien de Peltogyne paradoxa Ducke. Bruxelles, Imprimerie medicale et scientifique, 1930.
Extrait de "Une mission biologique Belge aus Brésil" (1922-23) par J. Massart... t.2, 1930.

New York fruit testing association.
A catalog of fruits originated at the New York agricultural experiment station. Geneva, 1931.

Nicholson, M. N.
Report on potato fungicides used locally as dry sprays, Kirton, [1931?]

Rangel, E.
Contribuição para o glossario Portuguez referente a mycologia e á phytopathologia. Rio de Janeiro, Imprensa nacional, 1931.

Verne, J.
Coleurs et pigments de êtres vivants. Paris, Librairie A. Colin, 1930.

Williams, R. O.
Flora of Trinidad and Tobago. v.1, pt.4. Rosales (pars) Trinidad, 1931.

Zander, R.
Schmarotzende pflanzen. Berlin, Brehm verlag, 1930(Die Brehm-bücher bd.5)

Reprints from Journals not yet rec'd or nor available.

Hey, A.
Beiträge zur spezialisierung der gerstenzwergrostes, Puccinia simplex Erikss. et Henn. Preprinted from Arb. Biol. Reichsanst. Land- u. Forstw. as Inaug.-diss. p.227-261. [1931]

Translations filed in Library of Bur. of Plant Industry.

Labat, J. B.
Du sucre & de tout ce qui regarde sa fabrique et ses differentes espèces (On sugar and on everything concerning its manufacture and the different species) In his Nouveau voyage aux isles de l'Amérique...Paris, 1722. v.3, p.120-176.

Lc

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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LIBRARY
RECEIVED
★ NOV 23 1931 ★
U. S. Department of Agriculture

Vol. 13, no. 22 Oct.26-Nov.7, 1931.

Agr. et Elev. Congo Belge.
Staner, P.
Liste de plantes susceptibles d'etre cultivées industriellement au Congo. Agr. & Elev. Congo Belge 5: 209-212. illus. O.1931. no.18.

Agr. Rev. Agropec. (Madrid)
Quintero, A.
Las malas hierbas en los cereales. Agr. Rev. Agropec. (Madrid) 3:633-635. illus. S.1931. no.33.

Agron. Colon. (Paris)
Mallamaire, A.
L'extension de la maladie des taches brunes de l'arachide en Afrique occidentale française et au Cameroun. Agron. Colon. 20: 37-39. Ag.1931. no.164.
Cercospora personata.

Amer. Forests (Washington)
Murrill, W. A.
Chestnut oak and basket oak. Amer. Forests 37: 660-661. illus. N. 1931. no.11.

Amer. Journ.Bot.
Chance, H. L.
The relation between catalase activity and vigor in inbred strains and crosses of corn seedlings. Amer. Journ. Bot. 18:696-703. O.1931. no.8.

Clare, T. S. & Johnstone, G. R.
Polyembryony and germination of polyembryonic coniferous seeds. Amer. Journ. Bot. 18: 674-683. pl.xlvi. O. 1931. no.8.

Amer. Journ. Bot. (cont.)

Cleland, R. E.
Cytological evidence of genetical relationships in Oenothera. Amer. Journ. Bot. 18:629-640. illus. O. 1931. no.8.

Hanson, H. C.
Comparison of root and top development in varieties of strawberry. Amer. Journ. Bot. 18: 658-673. illus. O. 1931. no.8.

Howard, F. L.
Laboratory cultivation of myxomycete plasmodia. Amer. Journ. Bot. 18:624-628. illus. O.1931. no.8.

Johnson, E. L.
On the alleged stimulating action of x-rays upon plants. Amer. Journ. Bot. 18: 603-614. O. 1931. no.8.

Kienholz, R.
The vegetation of a lava-formed lake in the Cascade Mountains. Amer. Journ. Bot. 18:641-648. illus. O. 1931. no.8.
Goose lake about 20 mi. southwest of Mt. Adams.

Sparrow, F. K. jr.
Two new chytridiaceous fungi from Cold Spring Harbor. Amer. Journ. Bot. 18: 615-623. pl. xlv. O. 1931. no.8.
Cladochytrium nowakowski, Nowakowskiella obscura.

Stout, A. B.
Pollen-tube behavior in Brassica pekinensis with reference to self-incompatibility in fertilization. Amer. Journ. Bot. 18: 686-695. p. xlvii. O.1931. no.8.

Swallen, J. R.
Crassipes, a new grass genus from Utah. Amer. Journ. Bot. 18: 684-685. illus. O.1931. no.8.
C. annuus.

Tims, E.C. & Edgerton, C. W.
Behavior of mosaic in certain sugarcane varieties in Louisiana. Amer. Journ. Bot. 18:649-657. O. 1931. no.8.

V.13, no. 22, p.3.

Ann. Agron. (Paris)

Geslin, H.

Etude climatologique du développement d'un blé d'hiver (lois de croissance en fonction de la température) influence de l'éclairement. Ann. Agron. (Paris) 1: 695-721. illus. S./O.1931. no.5.

Vincent, M. V., Herviaux, & Gaudin.

Sur les chlorures contenus dans les végétaux. Ann. Agron. (Paris) 1: 668-685. S./O.1931. no.5.

Ann. di Bot. (Roma)

Bambacioni-Mezzetti, V.

Nuove ricerche sull'embriologia delle gigliacee Ann. di Bot. 19: 365-382. pl.viii-x. Jl.30, 1931. no.2.

Cappelletti, C.

La concentrazione endocellulare nelle piante alpine in relazione all'altitudine. Ann. di Bot. 19: 278-332. Jl.30, 1931. no.2.

Carano, E.

Spore e conidi nel loro significato attuale. Ann. di Bot. 19: 384-394. Jl.30, 1931. no.2.

Cori, M.

Ricerche sull'azione degli ormoni animali sui vegetali. I. Influenze degli ormoni sull'attività diastasica del Saccharomyces cerevisiae. Ann. di Bot. 19: 249-263. Jl.30, 1931. no.2.

Dragone-Testi, G.

Esperienze sulla fotosintesi in presenza di alcuni alcaloidi. Ann. di Bot. 19: 202-216. Jl.30, 1931. no.2.

Juliani, M.

Ricerche sulla capacità germinativa degli embrioni asportati del seme. Ann. di Bot. 19: 353-364. Jl.30, 1931. no.2.

Lusina, G.

Le piante raccolte dal Marchese S. Patrizi-Montoro nell'interno della Cirenaica. Ann. di Bot. 19: 340-344. Jl.30, 1931. no.2.

Ann. di Bot. (cont.)

Negodi, G.
Ricerche sulla distribuzione e transmissione dei sessi in Urtica cannabina L. Ann. di Bot. 19: 264-277. Jl.30, 1931. no.2.

Rabinovitz-Sereni, D.
Contributo alla briologia della Palestina. Ann. di Bot. 19: 333-339. Jl.30, 1931. no.2.

Tonzig, S.
Sui composti purinici prodotti di scadimento dell'organismo vegetale. Ann. di Bot. 19:217-248. Jl.30, 1931. no.2.

Ventura, M.
Alcuni casi teratologici nei fiori di Iris germanica L. Ann. di Bot. 19:383. Jl.30, 1931. no.2.

Zodda, G.
Prime notizie sulla flora delle Mainarde. Ann. di Bot. 19: 163-201. Jl.30, 1931. no.2.

Ann. Missouri Bot. Gard.(St.Louis)

Anderson, E.
The chromosome complements of Allium stellatum and Nothoscordum bivalve. Ann. Missouri Bot. Gard. 18:465-468. illus., pl.41. S.1931. no.3.

Burt, E. A.
Hymenomycetous fungi of Siberia and Eastern Asia - mostly of wood-destroying species. Ann. Missouri Bot. Gard. 18: 469-487. S.1931. no.3.

Dodge, C. W.
Alpova, a new genus of Rhizopogonaceae, with further notes on Leucogaster and Arcangeliella. Ann. Missouri Bot. Gard. 18: 457-464. pl.40. S. 1931. no.3.

Shope, P. F.
The Polyporaceae of Colorado. Ann. Missouri Bot. Gard. 18:287-408. pl.16-39. S.1931. no.3.

Arch. Protistenk. (Jena)

Bauch, R.
Geographische verteilung und funktionelle differenzierung der faktoren bei der multipolaren sexualität von Ustilago longissima. Arch. Protistenk. 75: 101-132. illus. S.30, 1931. no.1.

Arch. Protistenk. (cont.)

Cholnoky, B. von

Zur kenntnis der physiologie einiger fadenbildender conjugaten. Arch. Protistenk. 75:1-13. illus. S.30, 1931. no.1.

Arch. Theecult.

Steinmann, A.

Verslag van den mycolog over 1930. Arch. Theecult. 1931: 161-164.

Im jaarverslag van het algemeen proefstation voor thee.

Beih. Bot. Centralbl. Abt.I (Dresden)

Baron, W.

Die idealistische morphologie Al. Brauns und A. P. de Candolles und ihr verhältnis zur deszendenzlehre. Beih. Bot. Centralbl. Abt. I. 48:314-334. S.1931. no.3.

Berger, W.

Das wasserleitungssystem von krautigen pflanzenzwergsträuchern und lianen in quantitativer betrachtung. Beih. Bot. Centralbl. Abt.I, 48: 363-390. illus. S.1931. no.3.

Cholodny, N.

Kritische bemerkungen über die eisenbakterien. Beih. Bot. Centralbl. Abt.I, 48: 391-404. illus. S.1931. no.3.

Firbas, F.

Ueber die ausbildung des leitungssystems und das verhalten der spaltöffnungen im frühjahr bei pflanzen des Mediterrangebietes und der tunesischen steppen und wusten. Beih. Bot. Centralbl. Abt.I, 48:451-465. illus. S.1931. no.3.

Knecht, H.

Ueber die beziehungen zwischen katalaseaktivität im ruhenden samen. Beih. Bot. Centralbl. Abt.I. 48: 229-313. illus. S. 1931. no.3.

Kurschat, M.

Untersuchungen uber den strangverlauf in den wurzeln einiger liliifloren. Beih. Bot. Centralbl. Abt.I, 48: 435-450. illus. S.1931. no.3.

Beih. Bot. Centralbl. Abt.I (cont.)

Martinovsky, J. O.
Ueber den ursprung derkollateralknospen bei den allioideen. Beih. Bot. Centralbl. Abt.I. 48: 425-434. pl.iii. S.1931. no.3.

Pascher, A.
Ueber eine farblose einzellige volvocale und die farblosen und grünen parallelformen der volvocalen. Beih. Bot. Centralbl. Abt.I, 48: 481-499. illus. S.1931. no.3.
Hyaliella nov.gen., H. polytomoides.

Pascher, A.
Ueber einen neuen einzelligen und einkernigen organismus mit eibefruchtung. Beih. Bot. Centralbl. Abt. I. 48: 466-480. illus. S.1931. no.3.
Chlorogonium oogamum.

Schwarz, W.
Der einfluss der zug, knick- und biegungsbeanspruchung auf das mechanische gewebesystem der pflanzen II. Entgegnung an W. Rasdorsky. Beih. Bot. Centralbl. Abt.I. 48: 405-424. illus. S.1931. no.3.

Sigmond, H.
Untersuchungen über trennungsgewebe. II. Die ablösung der blütenhüllblätter bei Hedera helix L. und Parthenocissus quinquefolia (L.) Planch. Beih. Bot. Centralbl. Abt.I, 48: 335-362. illus. S.1931. no.3.

Better Crops (N.Y.)

Alexander, A. S.
The inquiring mind and the seeing eye. Better Crops 17(4): 15-18, 60-61. port. O./N. 1931. no.4.
Sketch of E. W. Hilgard.

Bibl. Genetica. ('s-Gravenhage)

Andersson-Kottö, I.
The genetics of ferns. Bibl. Genetica 8: 269-294. illus. 1931.

Kooiman, H. N.
Monography of the genetics of Phaseolus (especially Ph.vulgaris and Ph. multiflorus) Bibl. Genetica 8: 295-409. illus. 1931.

V.13, no.22, p. 7.

Bibl. Genetica (comt.)

Tjebbes, K.

Polymerism. Bibl. Genetica 8: 227-268. 1931.

Polymerism in the vegetable kingdom: p.240-248.

Bot. Gaz. (Chicago)

Cross, G. L.

Embryology of Osmunda cinnamomea. Bot. Gaz. 92: 210-217. illus. O.1931. no.2.

Isbell, C.L.

Regenerative capacities of leaf and leaflet cuttings of tomato and of leaf and shoot cuttings of potato. Bot. Gaz. 92: 192-201. illus. O.1931. no.2.

McAvoy, B.

Ecological survey of the Bella Coola region. Bot. Gaz. 92: 141-171. illus. O.1931. no.2.

In the coast mountains of British Columbia.

Mehrlich, F. P.

Factors affecting growth from the foliar meristems of Bryophyllum calycinum. Bot. Gaz. 92:113-140. illus. O.1931. no.2.

Mottier, D. M.

Development of sex organs of fern prothallia under prolonged cultivation. Bot. Gaz. 92: 218-223. illus. O.1931. no.2.

Matteuccia nodulosa & Osmunda claytoniana.

Sherff, E. E.

New or otherwise noteworthy Compositae VII. Bot. Gaz. 92: 202-209. O.1931. no 2.

Bidens phelloptera, B. personans, B. oligocarpa, Ericentrodea decomposita, n.spp.

Studhalter, R. A.

Germination of spores and development of juvenile Thallus of Riella americana. Bot. Gaz. 92: 172-191. illus. O.1931. no.2.

Bot. Közlem. (Budapest)

Degen, A.
Pótló megjegyzések a Symphytum tanaicense Stev. előfordulásához. (Ergänzende bemerkungen uber das vorkommen von Symphytum tanaicense Stev.) Bot. Közlem. 28: 133-135. 1931. no.5.
German summary: p.134-135.

Rapaics, R.
Pécsi Lukács Koszorújának forrasmüve. (Das quellenwerk zu Lukas Péchi's "Koszoru") Bot. Közlem. 28: 121-125. illus. 1931. no.5.
German summary: p.125.
Lukas Martini's Der christlichen jungfrauen ehrenkräntzlein.

Soó, R.
Kritikai megjegyzések és újabb adatok a magyar flóra ismeretéhez. IV.(Kritische bemerkungen und neue beiträge zur kenntnis der ungarischen flora IV) Bot. Közlem. 28: 125-135. 1931. no.5.
German summary:p.132-133.

Soó, R.
Zarszó a Symphytum uliginosum-tanaicense kérdéséhez. (Schlusswort zur frage des Symphytum uliginosum-tanaicense). Bot. Kozlem 28: 134-137. 1931. no.5.
German summary: p.136-137.

Zólyomi, B.
A Bükhegység környékének Sphagnumlápjai. (Vegetationsstudien an den Sphagnummooren um das Bükkgebirge in Mittelungarn) Bot. Közlem 28: 89-121. illus. 1931. no.5.
German summary: p.116-121.

Bot. Arch. (Leizpig)

Becker, R.
Der bau und die entwicklungsgeschichte der ölzellen und ihres inhaltes, vornehmlich bei Peperomia. Bot. Arch. 33: 48-80. illus. 0.1931. no.1/2.
English abstract: p.79-80.

Bot. Arch. (cont.)

Becker, R.
Die zytologie und entwicklung der raphidenzellen und die entstehung ihres inhaltes bei Cissus gongylodes und Monstera deliciosa. Bot. Arch. 33: 81-96. illus. O.1931. no.1/2.
English recapitulation: p.94-95.

Fortak, G.
Die cytologie der keimung einer zingiberacee und einer piperacee. Bot. Arch. 33: 97-135. illus. O.1931. no.1/2.
English recapitulation: p.132-134.
Brachychilus horsfieldii, Peperomia blanda.

Niethammer, A.
Die beeinflussung der pflanzenzelle durch schwermetallverbindungen. Bot. Arch. 33: 41-47 illus. O.1931. no.1/2.

Oeffner, H.
Beiträge zum extrazellulären abbau von fetten durch mikroorganismen. Bot. Arch. 33: 172-198. illus. O.1931. no.1/2.
English abstract: p.197.
Phycomyces nitens.

Postelmann, C.
Die zytologie der drüsenhaare. Bot. Arch. 33: 1-40. illus. O.1931. no.1/2.
English abstract: p.38-39.

Schütz, W.
Ueber die einwirkung von beizmitteln auf keimung und wachstum des weizens. Bot. Arch. 33: 199-256. illus. O.1931. no.1/2.
English abstract: p.254-255.

Szimmat, H.
Der schwefelkreislauf eines hochmoores und eines erlenbruches im jahreswechsel und im vergleich mit einem gartenboden. Bot. Arch. 33: 136-171. O.1931. no.1/2.
English summary of principal results. p.170-171.

Bot. Not. (Lund, Sweden)

Arwidsson, Th.
Biologiska och floristiska notiser. 9-12.
Bot. Not. 1931; 375-382. no.5.

Arwidsson, Th.
Växtgeografiska notiser från Norrland III-IV.
Bot. Not. 1931: 354-374. map. no.5.

Gustafsson, A.
Weitere kastrierungsversuche in der gattung Rosa. Bot. Not. 1931: 350-354. no.5.

Håkansson, A.
Beobachtungen über die chromosomenbindungen bei einer triploiden Oenothera. Bot. Not. 1931: 339-342. illus. no.5.

Håkansson, A.
Die chromosomenzahl von speltoidheterozygoten, die aus s.g. subcompactum-typen beim weizen hervorgegangen sind. Bot. Not. 1931: 343-345. illus. no.5.

Hässler, A.
Verwandtschaftliche gliederung der afrikanischen euphorbien aus den sektionen Trichadenia Pax und Rhizanthium Boiss. Bot. Not. 1931: 317-338. no.5.
E. guimboënsis, E. taboraënsis, n.spp., E. somalensis nogalensis n.var.

Hammarlund, C.
Kleinere mycologische notizen. II. Bot. Not. 1931: 392-393. no.5.
Eine riesenform von Peronospora brassicae Gaumann [- P. parasitica (Fries) Tulasne] auf Rapanus sativus f. radicula.

Hasslow, O. J.
Nymphaea candida Presl. i Skane. Bot. Not. 1931: 391-392. no.5.

Lundberg, F.
Bemerkungen über die embryosackentwicklung bei Codiaeum. Bot. Not. 1931: 346-349. illus. no.5.

Bot. Not. (cont.)
Sylvén, N.
Bidrag till Skånes flora. 4. Fyndlokaler för sällsyntare eller mera sallan anmärkta former av några skånska växtarter. Bot. Not. 1931: 383-390. no.5.

Bull. Amer. Peony Soc.
Little, H. F.
The house of Brand. Bull. Amer. Peony Soc. 28(47): 12-47. S.1931. no.47.
Chronological list of Brand peonies with comments and descriptions.

Bull. Dept. Agr. Canada (Ottawa)
Ritchie, T. F.
Standard descriptions of vegetables. Beans. Bull. Dept. Agr. Canada no.153. 67 p., incl. 27 pl. (2 col.) 1931.

Bull. Hokkaido Agr. Exp. Stat. Kotoni, Sapporo, Japan.
Tanaka, I. & Iwadare, S.
An annotated list of the weeds of rice-field in Hokkaido. Bull. Hokkaido Agr. Exp. Stat. Kotoni, Sapporo, Japan. 51. 84 p. 17 pl. Mr.1931.
In Japanese.

Bull. Mens. Soc. Nat. Hort. France (Paris)
Evreinoff, V.
Sur la question des xenies de 2e ordre chez le pecher. Bull. Mens. Soc. Nat. Hort. France V, 4: 426-429. S.1931.

Bull. Min. Agr. Egypt Techn. & Sci. Serv.
Shabetai, J. R.
The Egyptian wild irises. Bull. Min. Agr. Egypt Techn. & Sci. Serv. no.113. 3 p. 2 col.pl. 1931.
I. helenae, I. sisyrinchium.

Bull. Min. Agr. Gt. Brit.
Insect pests and fungus diseases of basket willows. Bull. Min. Agr. Gt. Brit. 29: 14 p. 1931.
Fungus diseases: p.9-14.

V.13, no.22, p. 12.

Bull. Soc. Hist. Nat. Afr. Nord. (Alger)
Feldmann, J.
Contribution à la flore algologique marine de l'Algerie. Les algues de Cherchell. Bull. Soc. Hist.Nat. Afr. Nord. 22: 179-254. illus., pl.vii-xii. Jl.1931(rec'd O.) no.7.

Bull. So. Calif. Acad. Sci. (Los Angeles)
Clokey, I. W.
Notes on the flora of Santa Cruz Islands, California. Bull. Soc. Calif. Acad. Sci. 30: 60-61. My./Ag.1931. no.2.
Solanum arborescens, n.sp.

Fosberg, F. R.
Remarks on the taxonomy of the Cactaceae and some new combinations and names in that family. Bull. So. Calif. Acad. Sci. 30: 50-59. My./Ag. 1931. no.2.

Bull. Torr. Club.
Bamford, R.
Changes in root tips of wheat and corn grown in nutrient solutions deficient in calcium. Bull. Torr. Club 58: 149-178. pl.9-13. Mr.1931. no.3.

Carmin, J.
Growth and variability of wheat seedlings in magnesium sulphate solutions. Bull. Torr. Club 58: 179-190. illus. Mr.1931. no.3.

Trealease, S.F. & Trelease, H.M.
Magnesium injury of wheat. Bull. Torr. Club 58: 127-148. illus., pl.5-9. Mr.1931(Rec'd O.) no.3.

Cactus & Succ. Journ. (Los Angeles)
Baxter, E. M.
California cacti. Cactus & Succ. Journ. 3: 69-71. illus. O.1931. no.4.

Frick, G. A.
Euphorbia abyssinica. Cactus & Succ. Journ. 3: 62-63. illus. O.1931. no.4.
E. grandis same as E. abyssinica, other errors in use of name.

Cactus & Succ. Journ. (cont.)

Walther, E.

More about Graptopetalum. Cactus & Succ. Journ. 3: 73-74. illus. O.1931. no.4.

Graptopetalum amethystinum.

West, J.

What is a succulent? Cactus & Succ. Journ. 3: 71-72. O.1931. no.4.

White, A. & Sloane, B.L.

The Stapelieae. 2. The genera. Cactus & Succ. Journ. 3: 63-67. illus. O.1931. no.4.

Canad. Field Nat. (Ottawa)

Lewis, H. F.

An annotated list of vascular plants collected on the north shore of the Gulf of St. Lawrence, 1927-1930 (cont.) Canad. Field Nat. 45: 199-204. illus. N.1931. no.8.

Canad. Journ. Res. (Ottawa)

Henry, A. W.

Occurrence and sporulation of Helminthosporium sativum P.K.B. in the soil. Canad. Journ. Res. 5: 407-413. illus. O.1931. no.4.

"H. sativum will sporulate quite readily on several different soil types including sand if they are sterilized".

Chem. & Industr.

Woodman, R. M.

An examination of some commercial suspensions used in the spraying of plants. Chem. & Industr. 50: 391T-397T. illus. O.16, 1931. no.42.

Citrus Riv. Camera Agrum. Messina.

Rabinovitz Sereni, D.

Perdita della facoltà germinative delle spore di Deuterophoma tracheiphila, alla fine del periodo primaverile. Citrus Riv. Camera Agrum. Messina. II,17: 263-264. S.1931. no.9.

Compt. Rend. Acad. Sci. Paris

Lutz, L.

Sur les ferments solubles sécrétés par les champignons hyménomycètes. Comparaison du pouvoir antioxygène du tanin et des constituants phénoliques des essences. Compt. Rend. Acad. Sci. Paris 193: 608-609. O.12, 1931. no.15.

Experiments with Stereum hirsutum, S. purpureum Coriolus versicolor.

Compt. Rend. Soc. Biol. Paris

Colmant, G.

La formation et la germination des zoospores de Cladophora glomerata. Compt. Rend. Soc. Biol. Paris 108: 259-261. O.16, 1931. no.28.

Conard, A.

Le mécanisme de la division cellulaire, chez Degagnya majuscula (Kütz.) Conard (Spirogyra majuscula Kütz.) est a rattacher directement aux phénomènes de croissance. Compt. Rend. Soc. Biol. Paris 108: 261-264. O.16, 1931. no.28.

Dufrénoy, J.

Mosaïque des tulipes. Compt. Rend. Soc. Biol. Paris 108: 51-53. illus. O.12, 1931. no.27.

Gonçalves da Cunha, A. & Gonçalves Sobrinho, L.

Le développement des cavités nectarifères de la feuille de Coprosma baueri. Compt. Rend. Soc. Biol. Paris 108: 206-207. O.16, 1931. no.28.

Gonçalves da Cunha, A.

Le mecanisme de l'excrétion du nectar dans les nectarires extra-nuptiaux de Ricinus communis. Compt. Rend. Soc. Biol. Paris 108: 205-206. O.16, 1931. no.28.

Facts about Sugar. (N.Y.)

Brandes, E. W.

Breeding for resistance to mosaic. Note on the work with the new cane species from Papua. Information on inheritance of disease tendencies incomplete. Facts about Sugar 26: 490-491, 493. illus. N.1931. no.11.

Flor. Exch. (N. Y.)

Zimmerman, P. W., Hitchcock, A.E. & Crocker, W.
Gas injury to roses in greenhouses. A summarizing report of previous knowledge and the most recent and exhaustive investigations of a problem of vital importance to the florist industry. Flor. Exch. 78(9): 11, 33-34. illus. O.31,1931. no.9.

Flor. Rev. (Chicago)

Tilford, P. E.
New control for damping off. Flor. Rev. 69(1770): 22. illus. O.29, 1931. no.1770.
Formaldehyde dust mixed with soil.

Forstarchiv. (Hannover)

Trénel, M.
Zum kiefernsterben in nordwest-Deutschland. Forstarchiv. 7: 390-391. O.15, 1931. no.20.
In reply to J. Liese's comments on the author's earlier article.

Wollenweber, H. W.
Oedocephalum - Polyporus annosus. Forstarchiv. 7: 391. O.15, 1931. no.20.

Fortschr. Landw. (Vienna)

Bukassow, S.
Die frostempfindlichkeit der kartoffel. Fortschr. Landw. 6: 643-644. illus. O.15,1931. no.20.
"Im herbst 1930 wurde ein teil der grossen kartoffelkollektion des Allrussischen instituts für pflanzenbau bei Leningrad vor der ernte von einem frost betroffen".

Hager, O.
Das keimfloss. Fortschr.Landw. 6: 644-645. illus. O.15, 1931. no.20.

Kosmat, H.
Saugkraftmessungen und enzymatische kinetik der pflanzen. Fortschr. Landw. 6: 648-651. O.15, 1931. no.20.

Gard. Chron. (London)

Brown, N. E.
Mesembryanthemum. Conicosia. Gard. Chron. III, 90: 335. illus. O.24,1931. no.2339.
C. capensis.

Chittenden, F. J.
Plants causing skin irritation. Gard. Chron. III, 90: 332-334. O.24,1931. no2339.

Darlington, C. D.
The bearing of chromosome studies on plant breeding. Gard. Chron. III, 90: 314-315. illus. S.1931. no.2338.

Friend, H.
Horticulture in relation to commerce. XVII. Onions and garlic. Gard. Chron. III, 90: 312. O.17,1931. no.2338.

The menace of rust. Gard. Chron. III, 90: 326. O.24, 1931. no.2339.
On the rose.

Small, J.
Revelations of a pocket-lens (cont.) Gard. Chron. III,90: 329. illus. O.24, 1931. no.2339.

Turrill, W. B.
Climatic factors governing the distribution of plants. (concl.) Gard. Chron. III, 90: 331-332. O.24, 1931. no.2339.

Gard. Illus. (London)

Forster, W. A.
Plants for mild seaside gardens. III. Olearias. Gard. Illus. 53: 657. illus. O.24,1931. no.2746.

Gartenfl. (Berlin)

Kallenbach, F.
Schlafende blumen - vom pulsenden pflanzenherz. Gartenfl. 80: 329-330. O.1931.

Gartenw. (Berlin)

Brucker, K. W.
Die schrotschusskrankheit an pfirsichbäumen. Gartenw. 35: 567. illus. O.9,1931. no.41.
Clasterosporium carpophilum.

Hedwigia. (Dresden)
Carl, H.
Beiträge zur kenntnis der lebermoosgattungen Syzygiella Spruce und Jamesoniella Spruce. Hedwigia 71: 283-304. illus. O.1931. no.5.

Riehmer, E.
Eine neue flechte aus Sachsen. Hedwigia 69: 305-310. illus. O.1931. no.5.
Porina porphyria (Segestria).

Servit, M.
Flechten aus Jugoslavien. 2. Süddalmatien und Lovčen. Hedwigia 71: 215-282. O.1931. no.5.

Indian For. (Dehra Dun)
Parker, R. N.
Name changes in important Indian trees. Indian For. 57: 485-490. O.1931. no.10.

Intern. Bull. Plant Prot.
Hopkins, J. C.
Southern Rhodesia: Alternaria leaf spot of tobacco. Intern. Bull. Plant Prot. 5: 165. 1931. no.9.

Uppal, B. N.
India: a new virus disease of Dolichos biflorus Intern. Bull. Plant Prot. 5: 163. 1931. no.9.
Similar to mosaic of bean.

Uppal, B. N.
India: Rhizoctonia bataticola on sorghum in the Bombay Presidency. Intern. Bull. Plant Prot. 5: 163. 1931. no.9.

Ital. Agr. (Milan)
Donà dalle Rose, A.
Primo contributo sulla maturazione e conservabilità dei pomidor trattati con gas etilene. Ital. Agr. 68: 619-627. illus. S.1931. no.9.

Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obsch.(Mitt. Tomsk. Abt. Russ. Bot. Ges.)
Chekhov, V.
Kariosistematicheskoe issledovanie tribusov Sophoreae Spreng., Podalarieae Benth. i Genisteae Bronn. sem. Leguminosae (Karyologisch systematische untersuchung der tribus Sophoreae, Podalarieae und Genisteae). Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk. Abt. Russ. Bot. Ges.) 3: 121-131. 2 pl. 1931. no.1/2.
Russian with German summary.

Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk.Abt. Russ. Bot. Ges.) (cont.)

Krylov, P.
Fito-statischeskiĭ ocherk al'piĭskoĭ oblasti Altaia (Phyto-statistiche uebersicht der alpinen region des Altai) Izv. Tomsk. Otdel. Gosud. Russk.Bot. Obshch. (Mitt. Tomsk. Abt.Russ. Bot. Ges.) 3: 28-81. 1931.
Russian with German summary.

Lavrov, N.N.
Material dlia flory spizevikov Sibiri (Beiträge zur schleimpilz - Flora Sibiriens II. Schleimpilze des nördlichen und zentralen Altai). Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch.(Mitt. Tomsk. Abt. Russ. Bot. Ges.) 3: 84-100. 1931. no.1/2.
Russian with German summary.

Reverdatto, V. V.
Morfologiia i rastitel'nost "piatnistoĭ tundry" arkticheskoĭ i al'piĭskoĭ oblasti Sibiri (Die morphologie der "fleckentundra" des arktischen und des alpinen gebietes Sibiriens). Izv. Tomsk. Otdel. Gosund. Russk. Bot. Obschch. (Mitt. Tomsk. Abt. Russ. Bot. Ges.) 3: 101-112. illus. 1931. no.1/2.
Russian with German summary.

Shishkin, B.K.
O nekotrykh rasteniiakh, naĭdennykh na Altae letom 1927 g. (Ueber einige im sommer 1927 im Altai gefundene pflanzen). Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk. Abt. Russ. Bot. Ges.) 3: 113-120. 1931. no.1/2.
Russian with German summary.

Shishkin, B. K. & Sergievskaja, L.P.
P.N. Krylov i ego nauchnaia deiatel'nost. Biograficheskii ocherk. (P.N. Krylow und seine wissenschaftliche tätigkeit). Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk.Abt. Russ. Bot.Ges.) 3: 1-16. port. 1931. no.1/2.
Russian with German summary.

Shumilova, L.
O bugristykh torfianikakh iuzhnoĭ chasti Turukhanskogo kraia (Ueber die hügeltorfmoore des Turuchangebietes). Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk. Abt. Russ. Bot. Ges.) 3: 132-149. 2 pl. 1931.
Russian with German summary.

Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk. Abt. Russ. Bot. Ges.) (cont.)

Voronikhin, N. N. & Popova, T. G.
Lochmiopsis, novyĭ rod vodoroslei iz sem. Leptosirae. Izv. Tomsk. Otdel. Gosud. Russk. Bot. Obshch. (Mitt. Tomsk. Abt. Russ. Bot. Ges.) 3: 17-27. illus. 1931.
Russian with Latin diagnoses (L. sibirica, L. printzii).

Journ. Agr. Assoc. China.

Tai, F. L.
The development of plant pathology works in China, 1930. Journ. Agr. Assoc. China 1931: 74-87. F.1931. no.85.
In Chinese.

Journ. Fac. Sci. Imp. Univ. Tokyo Sect.III,Bot.

Satake, Y.
Systematic and anatomical studies on some Japanese plants I-2. Journ. Fac. Imp. Univ. Tokyo Sect.III, Bot. 3: 485-513. illus. S.5, 1931. no.2.
1. Systematic importance of spodograms in the Urticales. 2. Systematic anatomy of Hakonechloa macra Makino.

Journ. Indian Bot. Soc. (Madras.

Ajrekar, S. L. & Parandekar, S. A.
Observations on the life history of the rust fungus Uromyces species on Jasminum malabaricum and its relation to Uromyces hobsoni Vize. (U. cunninghamianus Barc.) on Jasminum grandiflorum. Journ. Indian Bot. Soc. 10: 195-204. 2 pl. Jl. 1931
Uredo on J. malabaricum is in no way connected with the Uromyces species on the same host; it is a distinct rust fungus occurring in the uredo stage only.

Dixit, S. C.
Some Charophyta from Salsette. Journ. Indian Bot. Soc. 10: 205-208. illus., 1 pl. Jl.1931 no.3.

Joshi, A. C.
Anomalous secondary thickening in the stem of Rumex dentatus L. Journ. Indian Bot. Soc. 10: 209-212. illus. Jl.1931 no.3.

Journ. Indian Bot. Soc. (cont.)

Joshi, A. C.
Contributions to the anatomy of the Chenopodiaceae and Amarantaceae. I. Anatomy of Alternanthera sessilis R. Br. Journ. Indian Bot. Soc. 10: 213-231. illus., 2 pl. Jl.1931. no.3.

Mullan, D. P.
On the occurrence of glandular hairs (salt glands) on the leaves of some Indian halophytes. Journ. Indian Bot. Soc. 10: 184-189. 1 pl. Jl.1931 no.3.

Rao, L. N.
Bisporangiate cones of Pinus longifolia and Picea morinda. Journ. Indian Bot. Soc. 10: 232-236. illus. 2 pl. Jl.1931 no.3.

Sethi, M. L.
On Sauchia spongiosa Kashyap. Journ. Indian Bot. Soc. 10: 175-183. pl.i-ii. Jl.1931 no.3.

Singh, T. C. N.
On the effect of potassium permanganate on the growth, flowering and fruiting of Cicer arietinum L. Journ. Indian Bot. Soc. 10: 190-194. 1 pl. Jl.1931 no.3.

Journ. Indian Chem.Soc. (Calcutta)

Dey, B. B. & Sitharaman, M. V.
Peroxidases. A new method of estimating their activity. Journ. Indian Chem. Soc. 8: 479-487. Ag. 1931. no.8.

Pillay, P. P. & Siddiqui, S.
Chemical examination of the marking-nut (Semecarpus anacardium, Linn.) Journ. Indian Chem. Soc. 8: 517-525. Ag.1931. no.8.

Journ. Linn. Soc. Bot.(London)

Bandulska, H.
On the cuticles of some recent and fossil Myrtaceae. Journ. Linn. Soc. Bot. 48: 657-671. illus., pl.39-40. O.9, 1931. no.325.

Journ. Linn. Soc. Bot. (cont.)

Holden, H. S.
Some observations on the wound reactions of Ankyropteris corrugata. Journ. Linn. Soc. Bot. 48: 643-655. illus., pl.38. O.9, 1931. no.325.

Sprague, T.A. & Nelmes, E.
The herbal of Leonhart Fuchs. Journ. Linn. Soc. Bot. 48: 545-642. O.9, 1931. no.325.

Journ. N.Y. Bot. Gard.

Barnhart, J. H.
Per Axel Rydberg. Journ. N.Y. Bot. Gard. 32: 229-233. port. O.1931. no.382.

Rusby, H.H.
Vegetable drugs and medicines. Journ. N.Y. Bot. Gard. 32: 234-237. O.1931. no.382.

Journ. Pharm. Soc. Japan.

Kimura, K. & Fujikawa, F.
On the anatomy of buchu leaves. II. Journ. Pharm. Soc. Japan. 51: 105-108. S.1931. no.9.
Barosoma betulina, B. crenulata.

Terasaka, M.
Ueber die alkaloide der wurzelrinde von Orixa japonica, Thunb. (I und II mitteilung). Journ. Pharm. Soc. Japan 51: 99-105. S.1931. no.9.

Journ. Roy. Hort. Soc.(London)

Baker, A.
The cult of the tulip in Turkey. Journ. Roy. Hort. Soc. 56: 234-244. S.1931. no.2.

Baur, E.
Evolution. Journ. Roy. Hort. Soc. 56: 176-182. S.1931. no.2.

Bunyard, E. A.
John Wedgwood's garden. Journ. Roy. Hort. Soc. 56: 196-200. S.1931. no.2.

Davidson, J.
The flora of British Columbia. Journ. Roy. Hort. Soc. 56: 201-206. 7 pl. on 4. S.1931. no.2.

Journ. Roy. Hort. Soc.(cont.)

Keeble, F. W.

Scope and methods of plant-breeding work at the Kaiser Wilhelm-Institut für züchtungsforschung, Münchelberg (Mark). Journ. Roy. Hort. Soc. 56: 183-190. S. 1931. no.2.

Lofthouse, T. A.

Plant hunting in the Sierra Nevada. Journ. Roy. Hort. Soc. 56: 225-233. 4 pl. on 2. S.1931. no.2.

Warburg, O. E.

Cistus hybrids. Journ. Roy. Hort. Soc. 56: 217-224. 5 pl. on 3. S.1931. no.2.

Journ. Roy. Micr. Soc.(London)

Akehurst, S. C.

Observations on pond life, with special reference to the possible causation of swarming of phytoplankton. Journ. Roy. Micr. Soc. III, 51: 237-265. illus. S.1931. no.3.

Kolloidchem. Beih.

Samec, M.

Studien über pflanzenkolloide XXX. Phosphorhaltige abbauprodukte der kartoffelstärke. Kolloidchem. Beih. 33: 449-459. O.1, 1931. no.9/12.

Maataloustiet Aikak. [Agric. Mag.] (Helsingfors)

Kivinen, E.

Ahosuolaheinän (Rumex acetosella) kasvupaikkojen reaktiosta. (Ueber die reaktion der standorte des kleinen ampfers (Rumex acetosella). Maataloustiet. Aikak. [Agric. Mag.] 3: 10-16. 1931. no.1.

German summary: p.15-16.

Kokkonen, P.

Roots and root systems of cocksfoot (Dactylis glomerata). Maataloustiet. Aikak. [Agric. Mag.] 3: 33-37. incl. 1 pl. 1931. no.2.

Meded. Deli Proefst. Medan, Sumatra.

Jochems, S. C. J.

Spikkel in Deli-tabak (Cercospora disease on Sumatra tobacco). Meded. Deli Proefst. Medan Sumatra II, no.72. 35 p. 3 pl. 1931.

Mikrochemie.

Klein, G., Wenzl H. & Kemperling, N.
Der mikrochemische nachweis flüchtiger fettsäuren in der pflanzen. I. Mikrochemie n.s., 4(v.10): 70-89. 1931. no.1/3.

Missouri Bot. Gard. Bull. (St.Louis)

Woodson, R. E. jr.
Freaks in the garden. Missouri Bot. Gard. Bull. 19: 127-129. pl. 25. O.1931.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Gurken-krankheiten. "Urzeugung" der gurkenkrätze und anderer schmarotzer-pilzkrankheiten? Möller's Deut. Gärtn.-Zeit. 46: 346-347, 353-354. O.11,21, 1931. no.29,30.
Gladosporium cucumerinum.

Hennis, W. jr.
Als orchideen-sammler in den urwäldern Kolumbiens. Möller's Deut. Gärtn.-Zeit. 46: 357-358. O.21, 1931. no.30.

Monatsschr. Deut. Kakteen-Ges. (Berlin)

Bödeker, F.
Mamillaria zeilmanniana Böd., sp.n. Monatsschr. Deut. Kakteen-Ges. 3: 227-228. illus. O.1931. no.10.

Roeder, W.v.
Neue methoden zur bekämpfung pilzlicher und bakterieller schädigungen 1. Chinosol. Monatsschr. Deut. Kakteen-Ges. 3: 237-242. O.1931. no.10.

Rudolph, H.
Kann man kakteen zur cristata-bildung zwingen? Monatsschr. Deut. Kakteen-Ges. 3: 228-231. O.1931. no.10.

Werdermann, E.
Echinocactus umadeave (Frič) Werd. Monatsschr. Deut. Kakteen-Ges. 3: 223-226. illus. O.1931. no.10.

Mycologia (Lancaster,Pa.)

Cummins, G. B.
Phragmidium species of North America: differential teliospore and aecial characters. Mycologia 23: 433-445. pl.32. N./D. 1931. no.6.

Mycologia (cont.)

Dodge, B. O.
A further study of the morphology and life history of the rose black spot fungus. Mycologia 23: 446-462. pl.33-35. N./D. 1931. no.6.

Jackson, H. S.
The rusts of South America based on the Holway collections. V. Mycologia 23: 463-503. N./D. 1931. no.6.

Seaver, F. J.
Photographs and descriptions of cap-fungi XV. The giant Elvela. Mycologia 23: 409-410. pl.29. N./D. 1931. no.6.

Sawyer, W. H. jr.
Studies on the morphology and development of an insect-destroying fungus, Entomophthora sphaerosperma. Mycologia. 23: 411-432. illus., pl.30-31. N./D. 1931. no.6.

Nat. Canad. (Quebec)

Louis-Marie,
Exploration botanique du comté de l'Assomption. Nat. Canad. 58: 196-210. illus. O. 1931. no.10.

Risi, J.
La nature et le role du pigment vert des plantes. Nat. Canad. 58: 181-196. illus. O.1931. no.10.

Nature (London)

Farmer, J. B.
Prof. Percy Groom, M.B.E., F.R.S. Nature 128: 695. O.24, 1931. no.3234.
Notice of death.

Naturforsch. (Berlin)

Hennig, Br.
Erdsterne. Bau, entwicklung und vorkommen. Naturforsch. 8: 221-224. pl.54-55. O.1931. no.7.
Geaster.

New Zeal. Journ. Agr. (Wellington)
Chamberlain, E. E.
Corticium disease of potatoes. I. Propagation and spread of the disease. New Zeal. Journ. Agr. 43: 204-209. illus. S.21, 1931. no.3.

New Zeal. Journ. Sci. & Techn. (Wellington, N.Z.)
Davies, W. C.
Tidal-flat and salt-marsh studies in Nelson Haven. I. The ecology of Nelson Haven, its mud flats and the Wakapuaka reclamation. New Zeal. Journ. Sci. & Techn. 12: 338-360. illus. (incl.maps) Je.1931. no.6.

Doak, B. W.
Tidal-flat and salt-marsh studies in Nelson Haven. II. The soil chemistry of the Nelson mud-flat. New Zeal. Journ. Sci. & Techn. 13: 1-11. illus. Ag.1931. no.1.

Parker, A.J. & Spackman, L. S.
Methods of hydrogen ion estimation in soil. The use of barium sulphate in the colorimetric determination of soil hydrogen ion concentration. New Zeal. Journ. Sci. & Techn. 13: 48-49. Ag. 1931. no.1.

Ohio Journ. Sci (Columbus)
Littlefield, E. W.
Bisporangiate inflorescences in Pseudotsuga. Ohio Journ. Sci. 31: 416-417. S.1931. no.5.

Pflanzenbau (Berlin)
Honecker, L.
Beiträge zum mehltauproblem bei der gerste mit besonderer berücksichtigung der züchterischen seite. I. Allgemeines über biologie und physiologie der erysiphaceen. Pflanzenbau 8: 78-84. S. 1931. no.3.

Pharm. Weekbl. (Amsterdam)
Wirth, E. H.
Over Lunasia amara var. costulata. Pharm. Weekbl. 68: 1011-1020. O.10, 1931. no.41.

Plant Physiology.

Addoms, R.M. & Mounce, F.C.
Notes on the nutrient requirements and the histology of the cranberry (Vaccinium macrocarpon Ait.) with special reference to mycorrhiza. Plant Physiology 6: 653-668. illus., pl.xi-xii. O. 1931. no.4.

Ashby, E.
Comparison of two methods of measuring stomatal aperture. Plant Physiology 6: 715-719. O.1931. no.4.

Gerdel, R. W.
Effect of fertilizers and date of planting on the physiological development of the corn plant. Plant Physiology 6: 695-714. illus. O.1931. no.4.

Gilbert, B.E. & Pember, F.R.
The sensitivity of red clover (Trifolium pratense) to small amounts of boron and manganese. Plant Physiology 6: 727-729. illus. O.1931. no.4.

Harrison, C. M.
Effect of cutting and fertilizer applications on grass development. Plant Physiology 6: 669-684. illus. O.1931. no.4.

Johnson, E. L.
Effect of X-irradiation upon growth and reproduction of tomato. Plant Physiology 6: 685-694. illus. O.1931. no.4.

Lund, E. J.
Electric correlation between living cells in cortex and wood in the Douglas fir. Plant Physiology 6: 631-652. illus. O.1931. no.4.

Matlack, M. B.
Observations on the red color of the blood orange. Plant Physiology 6: 729-730. illus. O. 1931. no.4.

Nightingale, G. T., Addoms, R.M., Robbins, W.R. & Schermerhorn, L. G.
Effects of calcium deficiency of nitrate absorption and on metalbolism in tomato. Plant Physiology 6: 605-630. illus. O.1931. no.4.

Plant Physiology (cont.)

Thoday, D.

Mechanism of root-contraction in Brodiaea lactea. Plant Physiology 6: 721-725. O. 1931. no.4.

Rassegna Econ. Colon. Italy (Roma)

Baldrati, I.

La palma dum della colonia Eritrea e la sua utilizzazione. Rassegna Econ. Colon. Italy 19: 21-58, 285-324, 519-550. illus., 2 fold.pl., fold.map. Ja./F.-My./Je. 1931. no.1/2-5/6.

Rep. Agr. Dept. St. Lucia.

Control of fungus diseases. Rep. Agr. Dept. St. Lucia. 1930: 6. 1931.

Limes, cacao, coconuts.

Rev. Agr. Ile Maurice (Maurice)

Sornay, P. de.

Historique de la canne de graine à l'Ille Maurice. Rev. Agr. Ile Maurice 1931: 125-130. Jl./Ag.1931. no.58.

Rev. Bot. Appl. (Paris)

Bambous de la Republique Argentine. Rev. Bot. Appl. 11: 789-790. Ag./S.1931. no.121.

Bourdouil, C.

Sur l'élaboration et la transformation de l'amidon dans la banane. Rev. Bot. Appl. 11: 656-660. Ag.1931. no.120.

Braun-Blanquet, J. & Pawlowski, B.

L'eau et l'air du sol dans l'association à Deschampsia media et Brunella hyssopifolia (concl.) Rev. Bot. Appl. 11: 666-671. fold.tab. Ag.1931. no.120.

Chevalier, A.

Le role de l'homme dans la dispersion des plantes tropicales. Echanges d'espèces entre l'Afrique tropicale et l'Amerique du Sud. Rev. Bot. Appl. 11: 633-650. Ag.1931. no.120.

Le Hors, M.

La flore utilisable de Saint-Pierre et Miquelon. Rev. Bot. Appl. 11:757-760. Ag.1931. no.120.

Rev. Bot. Appl. (cont.)

Navarro de Andrade, E.
Les eucalyptus comme arbres de reboisement pour les pays tropicaux et subtropicaux (cont.) Rev. Bot. Appl. 11: 672-681. illus. Ag.1931. no.120.

Perrier de la Bathie, H.
Les plantes introduites à Madagascar. Rev. Bot. Appl. 11: 719-729. S. 1931. no.121.

Tisserant, C.
Les formations vegetables du Haut-Oubangui et leurs rapport avec l'agriculture. Rev. Bot. Appl. 11: 651-655. Ag.1931. no.120.

Walker, A.
Note sur les champignons comestibles de la Basse-Ngounié. Rev. Bot. Appl. 11: 784. Ag./S. 1931. no.121.
A new fungus which resembles Scleroderma.

Rev. Bryol. (Caen)

Allorge, P.
Notes sur la flore bryologique de la Péninsula Ibérique. VII. Additions à la flore portugaise. Rev. Bryol. n.s. 4: 32-36. S.25,1931. no.1.

Bizot, M.
Contribution à la flore bryologique de la Cote d'Or. Rev. Bryol. n.s., 4: 17-31. S.25, 1931. no.1.

Douin, C.
Les initiales secondaires chez les muscinées. Rev. Bryol. n.s.,4: 1-16. pl.1. S.25, 1931. no.1.

Rev. Intern. Produits Colon. (Paris)

Borgerhoff, & Jassogne, F.
Essai sur le Terminalia superba. Rev. Intern. Produits Colon. 6: 180-185. Mr.1931. no.63.

Wildeman, E.de.
La flore. Rev. Intern. Produits Colon. 6: 162-172. Mr.1931. no.63.
Belgian Congo.

Science (Lancaster, Pa.)

Allen, R. F.
Heterothallism in Puccinia triticina. Science 74: 462-463. N.6, 1931. no.1923.

Blake, S. F.
A flora of Mexico. Science 74: 458-459. N.6, 1931. no.1923.
Prof. Conzatti's Flora sinoptica mexicana, now in preparation.

Brittingham, W. H.
Variations in the evening primrose induced by radium. Science 74: 463-464. N.6, 1931. no.1923.
Oenothera lamarckiana & Oe. franciscana.

May, C.
A new elm disease. Science 74: 437. O.30, 1931. no.1922.
Tentatively referred to Cephalosporium.

Quirk, A. J.
Pure smooth and rough colony types at will. Science 74: 461. N.6, 1931. no.1923.

Snow, L. M.
Peat under a Delaware beach. Science 74: 458. N.6, 1931. no.1923.

So. African Gard. (Johannesburg)

Bolus, L.
Blue drip Disa. Disa longicornu, L.f. So. African Gard. 21: 276-277. 1 pl. (col.) O.1931. no10.

Bolus, L.
Plants new or notewrothy. South African plants cultivated at the National botanic gardens, Kirstenbosch. So. African Gard. 21: 281-282, 293. illus. O.1931. no.10.
Ixia duckittiae, I. stohriae, Geissorhiza eurystigma, Hesperantha stanfordiae, Babiana pastersoniae, n.spp.

Svenska Skogsvardsfören Tidskr. (Journ. Swedish For. Soc.)

Lindquist, B.
Den skandinaviska bokskogens biologi. (The ecology of the Scandinavian beech-woods). Svenska Skogsvardsfören. Tidskr. (Journ. Swedish For. Soc.) 29: 179-532. illus., map (fold.) 1931. no.3.
English summary: p.486-520.

Torreya.

Graham, E.
Notes on Trinidad plants. Torreya 31: 141-144. S./O.1931. no.5.

Henry, L. K.
A freak flower of the Chinese sacred lily. Torreya. 31: 145-146. illus. S./O.1931. no.5.

Matzke, E. B.
Modelling the orthic tetrakaidecahedron. Torreya 31: 129-132. illus., 2 pl. S./O.1931. no.5.

Meleney, G. C.
"Right angle" trees. Torreya 31: 137-140. illus. S./O. 1931. no.5.

Torrey, R. H.
Another Catskill occurrence of Potentilla tridentata. Torreya 31: 146-147. S./O. 1931. no.5.

Torrey, R. H.
Damsel flies captured by Drosera. Torreya 31: 147. S./O. 1931. no.5.

Torrey, R. H.
Frost flowers reported 100 years ago. Torreya 31:148-149. S./O.1931. no.5.

Trans. Nat. Hist. Soc. Formosa.

Sasaki, S.
Miscellaneous contributions to the flora of Formosa X. Trans. Nat. Hist. Soc. Formosa 21: 221-225. Ag.1931. no.115.
Rubus rubru-angustifolius, Torenia arisanensis, Lactuca transnokoensis, L. takasei n.spp.

Sawada, K.
Materials of the Formosan fungi. 28. Trans. Nat. Hist. Soc. Formosa 21: 227-235. Ag.1931. no.115.
Japanese (Mitremyces formosana, Ramularia citrifolia, Hemileia gardeniae-floridae, Septoria ranunculivernyii n.spp)

Ugeskr. Landmaend.

Hansen, H. P.

Om resistens mod smitsomme plantesygdomme. Ugeskr.Landmaend. 76: 662-665. O.16, 1931. no.42.

U.S. Dept. Agr. Circ.

Dewey, L. H.

Sisal and henequen, plants yielding fiber for binder twine. U.S. Dept. Agr. Circ. 186. 12 p. illus. O.1931.

Agave sisalana, A. fourcroydes.

U.S. Dept. Agr. Farm. Bull.

Demaree, J. B.

Diseases of pecans in the southern states. U.S. Dept. Agr. Farm. Bull. 1672. 27 p. illus. O.1931 (Rec'd N.)

Diehl, H. C., Lutz, J.M., and Ryall, A.L.

Removing spray residue from apples and pears. U.S. Dept. Agr. Farm. Bull. 1687. 31 p. illus. O. 1931.

U.S. Dept. Agr. Plant Dis.Rep.

Chupp, C.

Drought injury to cabbage in New York. U.S. Dept. Agr. Plant Dis. Rep. 18: 142-143. N.1,1931. no.13.

Mimeographed.

May, C.

A new elm disease. U.S. Dept. Agr.Plant Dis. Rep. 18: 143-144. N.1, 1931. no.13.

Mimeographed.

Mills, W. D.

A severe outbreak of leaf rust on cultivated raspberry in New York. U.S. Dept. Agr. Plant Dis. Rep. 18: 135-136. N.1,1931. no.13.

Pucciniastrum americanum.

Steiner, G.

The finding Heterodera schachtii, the sugar beet nema, on Polygonum in Virginia. U.S. Dept. Agr. Plant Dis. Rep. 15: 145. N.1, 1931. no.13.

Zeitschr. Bot.(Jena)
Hüttig, W.
Ueber den einfluss der temperatur auf die keimung und geschlechterverteilung bei brandpilzen. Zeitschr. Bot. 24: 529-577. illus. O.7, 1931. no.10/11.

Zeitschr. Immunitätsforsch. (Jena)
Benjamins, C. E.
Untersuchung über die wirksamen substanzen der gramineepollen. I. Ueber das vorkommen einer histaminähnlichen substanz im roggenpollen (Secale cereale). Zeitschr. Immunitätsforsch. 72: 189-211. illus. O.16, 1931. no.3/4.

Zhurn. Opytn. Agron. (Russ. Journ. Exp. Agr.)
Novikov, V. A.
Issledovaniia nad zasukhostoikost'iu rastenii (Investigations on the drought resistance of plants). Zhurn. Opytn. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 9: 47-72. 1931. no.2.
Russian with English summary.

Novikov, V. A.
K fiziologii khlopchatnika (Physiology of the cotton plant) II. Abscission. Zhurn. Opyth. Agron. Iugo-Vost. (Journ. Agr. Sci. S.-E. U.S.S.R.) 9: 81-112. illus. 1931. no.2.
Russian with English summary.

Exper. Stat. Publ.
Leach, J. G.
Blackleg disease of potatoes in Minnesota. Minnesota Agr. Exp. Stat. Tech. Bull. 76. 36 p. illus. Mr.1931(Rec'd O.)

New Jersey agricultural experiment station -
Dept. of plant pathology.
Miscellaneous diseases of rhododendrons (cont.) Its Nursery Dis. Notes v.4, no.4. 4 p. O.1931.
Mimeographed.

Exper. Stat. Publ. (cont.)

Hardy, W. T., Cory, V.L., Schmidt, H. & Dameron, W.H.
Bitterweed poisoning in sheep. Texas Agr. Exp. Stat. Bull.433. 18 p. Ag.1931(Rec'd N.)
Actinea odorata.

McCreary, O. C.
Wyoming forage plants and their chemical composition. Studies no.9. Wyoming Agr. Exp. Stat. Bull. 184. 23 p. illus. Ag.1931 (Rec'd O.)

State Publications.

Arny, A. C.
Eradicating perennial weeds in Minnesota. Minnesota Agr. Ext. Div. Spec. Bull. 140. 12 p. illus. Jl.1931.

Gordon, R. B.
Wild flowers. Ohio State Univ. Agr. Ext. Serv. Bull. 119. 28 p. illus. Ap.1931(Rec'd O.)

Ledewick, J.E. & Holmes, L. R.
Notable trees of Virginia. Bull. Virginia Polytech. Inst. v.24, no.7. 24 p. illus. 1931.

Martin, W. H. & Mott, P. B.
Seed potato certification in New Jersey. New Jersey Dept. Agr. Circ.198. 43 p. illus. Je.1931.(Rec'd N.)
Diseases resulting in rejections: p.31-42.

New Books.

Blatchley, W. S.
My nature nook, or notes on the natural history of the vicinity of Dunedin, Florida. Indianapolis, The nature publishing company, 1931.

Conard, H. S. & Kelley, A. P.
The embryolophyta of the Okoboji region. [n.p.] 1931.
Catalogue of the liverworts and mosses, by H.S. Conard. Catalogue of the vascular plants, by A.P. Kelley.
Typewritten.

Flachs, K.
Krankheiten und parasiten der zierpflanzen. Stuttgart, E. Ulmer, 1931.

Hottes, A. C.
The book of shrubs. N.Y., A.T. De La Mare Company, 1931.

New Books (cont.)

Steingruber, P.
Chlorophylldefekte bei rebsämlingen. Denkschr. 70 Jähr. Bestandesfeier Höh. Bund. - Lehranst. u. Bund.-Versuchsst. Wein-, Obst- u. Gartenb. Klosterneuburg. p.127-133. pl.xxii. O.1930.

Zuderell, H.
Laboratorium für botanik und pflanzenschutz. Denkschr. 70 Jähr. Bestandesfeier Höh. Bund. - Lehranst. u. Bund.-Versuchsst. Wein-, Obst- u. Gartenb. Klosterneuburg. p.66-73. O.1930.

Zuderell, H.
Zwei seitlinge (Pleurotus) als baumzerstörer. Denkschr. 70 Jähr. Bestandesfeier Höh. Bund. - Lehranst. u. Bund.-Versuchsst. Wein-, Obst- u. Gartenb. Klosterneuburg. p.124-127. pl.xxi. O.1930.

Konopka, K.
Die rolle des kerns bei verdauung, sekretion und reizbewegungeder Drosera rotundifolia. Halle (Saale), M. Niemeyer verlag, 1930 (Schriften der Königsberger gelehrten gesellschaft 7/ jahr, Naturw. Kl. heft.2)

Laurie, A. & Chadwick, L. C.
The modern nursery, a guide to plant propagation culture and handling. N.Y., Macmillan, 1931.

Die natürlichen pflanzenfamilien...2. stark verm. und verb. aufl. hrsg. von A. Engler, fortgesetzt von H. Harms, bd. 19a. 1931.
Mildbraed, J. Pandanaceae. - Knuth, R. Oxalidaceae, Geraniaceae. - Farenholtz,H. Tropaeoloaceae - Winkler, H. Linaceae. - Schultz, O.E. Erythroxylaceae. Engler, A. Zygophyllaceae, Cneoraceae, Rutaceae, Simarubaceae, Burseraceae.

Popoff, M.
Die zellstimulation. Ihre anwendung in der pflanzenzüctung und medizin. Berlin, P. Parey,1931.

Radić, I.
Ueber die nach verschiedenen methoden erhaltenen werte der oberflächenspannung mehrerer pflanzlicher gerbstofflösungen und uber die beziehung der oberflächenspannung zur adstringenz der gerbstoffe. [Frankfurt a.M.] 1930.

New Books (cont.)

Roeder, W. v.
Sukkulten... 2. aufl. Stuttgart, Franck'-sche verlagshandlung, 1931.

Tunmann, O.
Pflanzenmikrochemie... 2. verm. u. verb. aufl. bearb. von L. Rosenthaler... Berlin. Borntrager, 1931.

Translations filed in Library of Bur. of Plant Industry.

Carbone, D.
La vaccination des plantes. (La vaccination des plantes) Boll. Sez. Ital. Soc. Intern. Microbiol. 3: 396-398. Jl/Ag.1931.

Fors, A. J.
Cultivo de los eucaliptos en Cuba (Cultivation of eucalypts in Cuba). Rev. Agr., Com. y Trab. Cuba 11(10): 39-42. Ap.1931.

Kopp, A.
Un cas de longue incubation de la mosaique de la canne à sucre (A case of long incubation of sugar cane mosaic). Rev. Bot. Appl. 11: 37-39. Ja.1931.

Martinez, M.
El jardin botanico de la Universidad de Harvard (fundacion Atkins) en Soledad, Cienfuegos (The botanical garden of Harvard University (Atkins foundation) in Soledad, Cienfuegos) Rev. Agr. Com. y Trab. Cuba 11(10): 9-13. Ap.1931.

Ørsted, A. S.
Palmae centroamericanae (Central-American palms) Vidensk. Medd. Naturh. For. Kjøbenhavn 1858: 1-54.

Rathlef, H. v.
Stammbaumforschung bei der kartoffel. [Berlin, 1931]
Typewritten copy in B.P.I. with English trans. (Pedigree-investigation in potato)
Referat gehalten am 14. Juni 1931 in Berlin vor der sektion für "Stammbaumforschung bei der kartoffel" bei der Association internationale des sélectionneurs de plantes de grand culture.

Reprints from Journals not yet rec'd or not available.

Stevens, N.E.
The disappearance of the chestnut from Woodstock, Publ. Woodstock Hist.Soc. Ag.1931 p.41-49.

Non-current indexing.

Animadv. Syst. Herb. Univ. Tomsk.

Litwinow, D. I.
De Kochia nova in Altai inventa. Animadv. Syst. Herb. Univ. Tomsk. 1929, no.2. 2 p. 1 pl. F.1929.
K. krylowi.

Ann. Sci. Acad. Haut. Etude Agron. Bucarest.

Sandu-Ville, C.
Saugkraftmessungen an leguminosen und gramineen. Ann. Sci. Acad. Haut. Etud. Agron, Bucarest 1: 231-305. 1929.

Savulescu, T.
Considerations systématiques sur les erysiphacées Ann. Sci.Acad. Haut. Etud. Agron. Bucarest 1:33-45. 1929.

Savulescu, T. & Sandu- ville, C.
Die erysiphaceen rumaniens. Ann. Sci. Acad. Haut. Etud. Agron. Bucarest 1: 49-123. xxiv pl. 1929.

Bull. School For. Univ. Idaho.

Hubert, E. E.
A study of laboratory methods used in testing the relative resistance of wood to decay. Bull. School. fFor Univ. Idaho. 3. 47 p. illus. Jl.1929.

Darwiniana. (Buenos Aires)

Donat, A.
Contribuciones al conocimento de la flora de la Patagonia oreintal la flora de la region costanera. Darwiniana 2: 58-71. D.31, 1930. no.2/3.

Non-current indexing (cont.)

Darwiniana (cont.)

Felippone, F.
Plantas Uruguayas clasificadas en "Kew gardens" an el ano 1925. Darwiniana 2: 72-79. D.31, 1930. no.2/3.

Herter, G.
Las dos especies Americanas de "Azolla". Darwiniana 2: 14-18. illus. Ja.1,1928. no.1.

Herter, G.
Una pontederiácea del Uruguay "Heteranthera osteniana" G. Herter. Darwiniana 2: 19-20. Ja.1, 1928. no.1.

Hicken, C. M.
La "Calliandra tweediei" Benth. del Jardin zoológico de Buenos Aires. Darwiniana 2: 21-24. illus. Ja.1,1928. no.1.

Hicken, C. M.
Eduardo L. Holmberg. Darwiniana 2: 5-6. port. Ja.1,1928. no.1.

Hicken, C. M.
La planta cruel "el tasi" Araujoa sericifera Brot. Darwiniana 2: 24-28. Ja.1, 1928. no.1.

Hicken, C. M.
Primitiae sanzinianae. Las primeras plantas recogidas en Mendoza por Renato Sanzin. Darwiniana 2: 37-57. D.31, 1931 no.2/3.

Ecol. Monogr. (Durham)

Bruner, W. E.
The vegetation of Oklahoma. Ecol. Monogr. 1: 101-188. illus. Ap.1931.

Mem. Soc. Sci. Nat. Maroc.

Litardière, R. de. & Maire, R.
Contributions a l'étude de la flore du Maroc. fasc.2. Mem. Soc. Sci. Nat. Maroc. no.26.56 p. illus. D.31,1930.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

LIBRARY
RECEIVED
DEC 7 1931
U. S. Department of Agriculture

Vol.13, no.23. November 9-21, 1931.

Agr. et Elev. Congo Belge.
Stanér, P.
Liste de plantes susceptibles d'être cultivées industriellement au Congo. IV-XI. Agri. et Elev. Congo Belge 5:221-223. illus. O.31,1931. no.19.

Agr. Gaz. N. S. W. (Sydney)
Anderson, R. H.
Farm forestry. V. The native and introduced trees of New South Wales. Agr. Gaz. N. S. W. 42:549-558, 787-794. illus. Jl.,O.1931. no. 7, 10.

Douglass, J.
Glass-house tomato varieties. Agr. Gaz. N. S. W. 42:755-762. illus. O.1,1931. no.10.
Fusarium wilt: p.759.

MacIndoe, S. L.
Stem rust of oats. Observations at Glen Innes during the 1930-31 season. Agr. Gaz. N. S. W. 42:749-954. O.1,1931. no.10.

Agr. Prat. Pays Chauds (Paris)
Fricout, R. & Fricout, G.
Les cultures indigènes en Afrique equatoriale française II. Cultures alimentaires principales. Manioc. Agr. Prat. Pays Chauds 1931:772-774, 850-856. illus. O.,N.1931. no.16,17.

Agron. Colon. (Paris)
Lejeune, J.
Contribution à l'étude des plantes à fibres des pays chauds. L'Abroma augusta L. Agron. Colon. 20:65-70. illus., ii pl. S.1931. no.165.

Amer. Nat. (Lancaster, Pa.)

Emerson, S.
Parasynapsis and apparent chiasma formation in Oenothera. Amer. Nat. 65:531-535. N./D.1931. no.701.

Hall, S. R.
The problem of unfruitfulness in the cultivated apple. Amer. Nat. 65:512-530. illus. N./D. 1931. no.701.

Levitsky, G. A., Araratian, M., Mardjanishvil, J., & Shepeleva, H.
Experimentally induced alternations of the morphology of chromosomes. Amer. Nat. 65:564-567. illus. N./D.1931. no.701.
Secale cereale and species of Crepis.

Ann. Épiph. (Paris)

Ducomet, V.
[Rapport du] Station de pathologie végétale de Grignon. 1930. Ann. Épiph. 17:97-99. Ag.1, 1931. no.1.

France. Ministère de l'agriculture. Institut des recherches agronomiques.
Rapport phytopathologique pour l'année 1930.... Ann. Épiph. 17:1-61. Ag.1,1931. no.1.
Includes Foex, E. Maladies non parasitaires et maladies causées par des parasites végétaux: p.24-61.

France. Station biologique végétale d'Antibes
[Rapport] 1930. Ann. Épiph. 17:99. Ag.1, 1931. no.1.
G. Poirault, directeur, 1930.

France. Station centrale de pathologie végétale.
Rapport, 1930. Ann. Épiph. 17:62-69. Ag.1,1931. no.1.
E. Foex, director.

France. Station d'amelioration des plantes de Colmar
[Rapport] 1930. Ann. Épiph. 17:101-104. Ag.1,1931. no.1.
M. Sélariès, chief, Service de zoologie agricole et de pathologie végétale 1930.

Ann. Épiph. (Paris) (cont.)

France. Station d'amelioration des plantes de grande culture de Dijon.
[Rapport] 1930. Ann. Épiph. 17:104-105. Ag.1,1931. no.1.
M. Crépin, director 1930.

France. Station de pathologique végétale de Rennes.
[Rapport] 1930. Ann. Épiph. 17:105-107. Ag.1,1931. no.1.
C. Duboys director.

France. Station de recherches agronomique d'Avignon.
[Pathologie végétale] 1930. Ann. Épiph. 17:100-101. Ag.1,1931. no.1.
P. H. Joessel chief, travauz de pathologie végétale.

Gard, M.
Extrait du rapport d'une mission sur les maladies du noyer. Ann. Épiph. 17:111-112. Ag.1,1931. no.1.
Pourridié (Armillaria mellea), dépérissement lent.

Ann. Bot. (London)

Anderson, E. & Schafer, B.
Species hybrids in Aquilegia. Ann. Bot. 45:639-646. illus. O.1931. no.180.

Dowding, E. S.
The sexuality of Ascobolus stercorarius and the transportation of the oidia by mites and flies. Ann. Bot. 45:621-637. illus., pl.xix. O.1931. no.180.

Ernest, E. C.
Suction-pressure gradients and the measurement of suction pressure. Ann. Bot. 45:717-731. O.1931. no.180.

Gregory, F. G. & Crowther, F.
A physiological study of varietal differences in plants. II. Further evidence for the differential response in yield of barley varieties to manurial deficiencies. Ann. Bot. 45:579-592. illus. O.1931. no.180.

Ann. Bot. (London) (cont.)

Ingold, C. T.
On the effect of previous treatment with salt solutions on the subsequent outward diffusion of electrolytes from plant tissue. Ann. Bot. 45: 709-716. illus. O.1931. no.180.

Malhotra, R. C.
A contribution to the physiology and anatomy of tracheae, with special reference to fruit trees. I. Influence of tracheae and leaves on the water conductivity. Ann. Bot. 45:593-620. illus. O.1931. no.180.

Penston, N. L.
Studies of the physiological importance of the mineral elements in plants. III. A study by microchemical methods of the distribution of potassium in the potato plant. Ann. Bot. 45:673-692. illus. O.1931. no.180.
For nos. I-II, see W. O. James.

Salisbury, E. J.
On the morphology and ecology of Ranunculus parviflorus, L. Ann. Bot. 45:537-578. illus., pl.xviii. O.1931. no.180.

Thomas, H. H.
The early evolution of the angiosperms. Ann. Bot. 45:647-672. illus. O.1931. no.180.

Vernon, T. R.
An improved type of moist chamber for studying fungal growth. Ann. Bot. 45:733-737. illus. O.1931. no.180.

Worsley, R. R. Le G. & Nutman, F. J.
The estimation of carbon in plant tissues. Ann. Bot. 45:693-707. illus. O.1931. no.180.

Arch. Exp. Zellforsch. Gewebezucht.

Scheitterer, H.
Versuche zur kultur von pflanzengeweben. Arch. Exp. Zellforsch. Gewebezücht. 12:141-176. illus., pl.7-9. O.27,1931. no.1.

Arch. Koffiecult. Nederl.-Indië (Soerbaia)
Bally, W. & Reydon, G. A.
De tegenwoordige stand van het vraagstuk van de wortelaaltjes in de koffiecultuur (the present status of the question of the nematode diseases of coffee). Arch. Koffiecult. Nederl.-Indië 5:23-216. illus. Ag.1931. no.2.
English summary: p.201-210.

Arch. Protistenk. (Jena)
Kopetzky-Rechtperg, O.
Die "zersetzungskörperchen" der desmidiaceen-zelle. Arch. Protistenk. 75:270-283. pl.17 (col.) O.30,1931. no.2.

Moewus, F.
Neue chlamydomonaden. Arch. Protistenk. 75:284-296. illus. O.30,1931. no.2.

Arch. Rubbercult. Nederl.-Indië (Batavia, Java)
Ostendorf, F. W. & Ramaer, H.
Over den bladstand bij Hevea brasiliensis. Arch. Rubbercult. Nederl.-Indië 15:423-436. illus. S.1931. no.9.
English abstract: p.437-438.

Ark. Bot. (Stockholm)
Folin, T.
Hieracia vulgata efter Skellefte Älvs övre lopp. Ark. Bot. v.24A, no.1. 64 p. 11 pl. 1931. no.1.

Möller, H.
Grimmiaceae 1. Hydrogrimmia, Coscinodon, Schistidium, Rhacomitrium. Ark. Bot. v.24A, no.2. 177 p. illus. 1931. no.1.
Lövmossornas utbredning i. Sverige, XI.

Asia (Concord, N. H.)
Cornell, R. D.
The tree lover's Hawaii. Asia 31:776-784, 808-810, incl. 2 pl., illus. D.1931. no.12.

Bergcultures (Batavia, Java)
Snoep, W.
Korte aanteekening over de vorming van adventiefwortels bij Hevea en koffie. Bergcultures 5:1095-1097. illus. O.3,1931. no.40.

Ber. Deut. Chem. Ges. (Berlin)
Hilpert, S., Hofmeier, H., & Wolter, A.
Ueber den zustand des chlorophylls in der pflanze. Ber. Deut. Chem. Ges. 64:2570-2577. illus. O.14, 1931. no.9.

Biol. Gen. (Vienna)
Fidel, J. & Tristán, E.
Bau und bestäubung der blüte von Sechium edule. Biol. Gen. 7:335-343. illus. 1931. no.3.
Aus dem Spanischen übersetzt und herausgegeben von Otto Porsch.

Herrmann, H.
Ueber transpirationsschwankungen bei pflanzen unter konstanten aussenbedingungen. Biol. Gen. 7:469-496. 1931. no.3.

Porsch, O.
Richard Wettstein. Biol. Gen. v.7, no.3. 3 pl. port. 1931.

Biol. Rev. & Biol. Proc. Cambridge Phil. Soc.
Osterhout, W. J. V.
Physiological studies of single plant cells. Biol. Rev. & Biol. Proc. Cambridge Phil. Soc. 6:369-411. illus. O.1931. no.4.

Biol. Zentralbl. (Leipzig)
Zickler, H.
Ueber künstliche erzeugung von miktohaplonten bei askomyzeten. Biol. Zentralbl. 51:540-546. illus. 1931. no.10.

Blumen u. Pflanzenb. (Berlin)
Cereus rostratus und siene beziehungen zur bodenreaktion. Blumen u. Pflanzenb. 46:168. illus. N.2,1931. no.11.

Weinhausen, G.
Pflanzenzüchterschutz durch das deutsche patentgesetz? Blumen u. Pflanzenb. 46:173-174. N.2,1931. no.11.

Bol. R. Soc. Españ. Hist. Nat. (Madrid)

Caballero, A.
Plantas herborizadas en 1923 en la región de Larache (Marruecos). Bol. R. Soc. Españ. Hist. Nat. 31:343-348. Je.15,1931(Rec'd N.) no.5.

González Guerrero, P.
La asexualidad en las Chaetophoraceae. Bol. R. Soc. Españ. Hist. Nat. 31:325-329. illus. Je.15,1931(Rec'd N.) no.5.

González Guerrero, P.
La pseudodendria en las escitonemaceas. Bol. Soc. Españ. Hist. Nat. 31: 243-246. My.1931(Rec'd N.) no.4.

Guinea, E.
Una localidad de Lenzites sepiaria (Wulf.) Fr. en el Rif. Bol. R. Soc. Españ. Hist. Nat. 31: 341-342. illus. Je.15,1931(Rec'd N.) no.5.

Guinea, E.
Macromicetos de la Guinea Española recogidos por el Sr. Martinez ed la Escalera. Bol. Soc. Españ. Hist. Nat. 31:275-278. Ap.1931(Rec'd N.) no.4.

Martínez Martínez, M.
Contribución al estudio de las Digitales. III. Bol. R. Soc. Españ. Hist. Nat. 31:247-254. Ap. 1931(Rec'd N.) no.4.

Mas y Guindal, J.
La misión cientifica Bolivar en Marruecos y nuestras recolecciones de plantas. Bol. Soc. Espan. Hist. Nat. 31:255-273. My.1931(Rec'd N.) no.4.

Miranda, F.
Observaciones citológicas en la lenteja (Lens esculenta Moench.) I. Los núcleos somáticos. Bol. R. Soc. Españ. Hist. Nat. 31:403-407. illus. Jl.10,1931(Rec'd N.) no.6.

Unamuno, L. M.
Algunas especies de micromicetos de la región meridional de España. Bol. R. Soc. Españ. Hist. Nat. 31:331-340. Je.15,1931(Rec'd N.) no.5.

Boll. Sez. Ital. Soc. Intern. Microbiol. (Milano)

Curzi, M.
Rapports entre les genres Microascus Zukal et Scopulariopsis Bainier. Boll. Sez. Ital. Soc. Intern. Microbiol. 3:528-531. S.1931. no.9.

Bot. Gaz. (Chicago)

Albrecht, W. A. & Jenny, H.
Available soil calcium in relation to "damping off" of soy bean seedlings. Bot. Gaz. 92:263-278. illus. N.1931. no.3.

Atkinson, G. F.
Notes on the genus Lemanea in North America. Bot. Gaz. 92:225-242. N.1931. no.3.

Buchholz, J. T.
The suspensor of Sciadopitys. Bot. Gaz. 92:243-262. illus. N.1931. no.3.

Hirano, E.
Relative abundance of stomata in citrus and some related genera. Bot. Gaz. 92:296-310. illus. N.1931. no.3.

Howe, M. D.
Origin of leaf, and adventitious and secondary roots of Ceratopteris thalictroides. Bot. Gaz. 92:326-329. illus. N.1931. no.3.

Ramaley, F.
Some caryophyllaceous plants influenced in growth and structure by artificial illumination supplemental to daylight. Bot. Gaz. 92:311-320. illus. N.1931. no.3.

Williams, E., Kneer, L., Wickwire, G. C., Verda, D. J. & Burge, W. E.
Increase of sugar utilization in Spirogyra by means of commercial fertilizers. Bot. Gaz. 92:321-325. N.1931. no.3.

Wylie, R. B.
Cicatrization of foliage leaves. II. Wound responses of certain broad-leaved evergreens. Bot. Gaz. 92:279-295. illus. N.1931. no.3.

Brooklyn Bot. Gard. Rec.

Matsuki, B.
Japanese potted trees (Hachinoki). Brooklyn Bot. Gard. Rec. 20:279-298. illus., 1 pl. N.1931. no.6.

Bull. Agence Gén Colon. France (Paris)

Heim de Balsac, F., Fernbach, E., Husson, M., & Maheu, J.
Le grain de "fonio" - valeur alimentaire essais de fermentation. Bull. Agence Gén. Colon. France 24:1329-1340. illus., 1 pl. O.1931. no.271.
Digitaria exilis.

Heim de Balzac, F., Jamet, A., & Heim de Balsac, H.
Palétuviers de Madagascar, leurs écorces tannifères études complémentaires. Bull. Agence Gén. Colon, France 24:1242-1258. 1 pl.(fold.) Ag./S.1931. no.270.
Écorces de "honkovavy" (Ceriops candolleana Arn.)

Bull. Amer. Iris Soc.

Duffy, S. R.
Treatment for root rot. Bull. Amer. Iris Soc. 41:26-27. O.1931.

Bull. Cl. Sci. Acad. Roy. Belg. (Bruxelles)

Bouillenne, R., Bouillenne, M., & Prevot, P.
Une association végétale à Empetrum dans les Fagnes de Clefay. Bull. Cl. Sci. Acad. Roy. Belg. V,17:570-577. fold. tab. 1931. no.4.

Bouillenne, R. & Bouillenne, M.
Oxydations respiratoires et teneur en sucres dans les deux sexes de Mercurialis annua. Bull. Cl. Sci. Acad. Roy. Belg. V, 17:980-984. 1931. no.7.

Seward, A. C.
Some late palaeozoic plants from the Belgian Congo. Bull. Cl. Sci. Acad. Roy. Belg. V, 17: 532-542. 2 pl. 1931. no.4.

Bull. Illinois Nat. Hist. Surv.

Eddy, S.
The plankton of some sink hole ponds in southern Illinois. Bull. Illinois Nat. Hist. Surv. 19:449-467. illus., tabs. S.1931. no.4.

Bull. Imp. Coll. Agr. & For. Morioka, Japan

Togashi, K.

Studies on the pathology of peach canker.
Bull. Imp. Coll. Agr. & For. Morioka, Japan no.16.
178 p. ii pl. Je.1931.

Bull. Mus. Hist. Nat. Paris

Camus, A.

Coelachyrum nouveau de l'Afrique centrale.
Bull. Mus. Hist. Nat. Paris II, 3:546. Je.1931
(Rec'd N.) no.6.
Coelachyrum oligobrachiatum.

Chevalier, A.

A propos d'un Carex nouveau de la Guinée
Française. Bull. Mus. Hist. Nat. Paris II,
3:466-468. My.1931(Rec'd N.) no.5.
Carex neo-chevalieri.

Chevalier, A.

Guillaume Capus (1857-1931). Bull. Mus.
Hist. Nat. Paris II, 3:387-388. My.1931(Rec'd
N.) no.5.

Conrard, L.

Détermination de plantes du Cambodge. Bull.
Mus. Hist. Nat. Paris II, 3:539-545. Je.1931
(Rec'd N.) no.6.
Vernacular names given.

Kukenthal, G.

Une nouvelle cypéracée de Guinée Française
des collections du Muséum de Paris. Bull. Mus.
Hist. Nat. Paris II, 3:547. Je.1931(Rec'd N.)
no.6.
Fimbristylis chevalieri.

Marie, R.

Mission Saharienne Augiéras-Draper, 1927-1928.
Plantes du Sahara central. Bull. Mus. Hist. Nat.
Paris II, 3:521-538. Je.1931(Rec'd N.) no.6.
Surosporium catharticum n.sp.(Ustilaginaceae);
Pennisetum chudeaui, Beta monodiana n.spp.

Bull. New Zeal. Dept. Agr.
Cunningham, G. H.
Fireblight and its control. Bull. New Zeal. Dept. Agr. no.153. 8 p. illus. Ag.1931.

Bull. Pan. Amer. Union
Robinson, T. H.
A fifty million dollar orange from Brazil and other gifts of the Americas to the citrus fruit industry. Bull. Pan Amer. Union 65:1145-1150 illus. N.1931. no.11.
Navel orange.

Bull. Pop. Inform. Arnold Arb.
Anderson, E.
Hybrid trees. Bull. Pop. Inform. Arnold Arb. III, 5:65-68. 1 pl. N.16,1931. no.17.

Bull. Torr. Club
Benham, R. W.
Phoma conidiogena, an excitant of asthma: some observations on the development and cultural characteristics. Bull. Torr. Club 58:203-214. illus., pl.14-16. Ap.1931(Rec'd N.) no.4.

Gleason, H. A.
Studies on the flora of Northern South America. XV. Recent collections of Melastomataceae from Peru and Amazonian Brazil. Bull. Torr. Club 58:215-262. Ap.1931(Rec'd N.) no.4.

Humphrey, R. R.
Thorn formation in Fouquieria splendens and Idria columnaris. Bull. Torr. Club 58:263-264. Ap.1931(Rec'd N.) no.4.

Bull. U. S. Golf Assoc. Green Sect. (Washington, D. C.)
Moisture requirements of grass, with figures on rainfall for 1925-1930, inclusive. Bull. U. S. Golf Assoc. Green Sect. 11:154-162. illus. Ag.1931.no.8.

Compt. Rend. Acad. Sci. Paris
Bridel, M.
Sur la constitution de l'asébotoside (asébotine) Son identité avec le phlorozoside (phlorizine). Compt. Rend. Acad. Sci. Paris 193:748-750. O.26, 1931. no.17.
In Andromeda japonica, Kalmia latifolia.

Compt. Rend. Acad. Sci. Paris (cont.)

Chemin, E.
Les cristaux protéiques chez quelques espèces marines du genre Cladophora. Compt. Rend. Acad. Sci. Paris 193:742-745. illus. O.26,1931. no.17.

Chouard, P.
Analogies entre le développement de la plantule et la poussée annuelle des feuilles, chez les liliiflores. Compt. Rend. Acad. Sci. Paris 193:750-752. O.26,1931. no.17.

Varitchak, B.
Les mouvements du protoplasma chez un ascomycète, le Sordaria fimicola. Compt. Rend. Acad. Sci. Paris 193:779-780. illus. N.3,1931. no.18.

Compt. Rend. Soc. Biol. Paris.

Bachrach, E. & Dhére, Ch.
Sur la fluorescence d'une diatomée marine et sur le spectre de fluorescence de ses pigments chlorophylliens. Compt. Rend. Soc. Biol. Paris. 108:385-387. O.23,1931. no.29.
Navicula.

Moreua, F. & Moruzi, C.
Sur les différences entre les thalles de signes opposés chez les ascomycètes hétérothalliques. Compt. Rend. Soc. Biol. Paris 108:371-372. O.23, 1931. no.29.

Contr. Biol. Lab. Sci. Soc. China Bot. Ser.

Chen, W. C.
A new spruce from western China. Contr. Biol. Lab. Sci. Soc. China Bot. Ser. 6:33-34. 2 pl. on 1. Ja.1,1931. no.4.
Picea sikangensis.

F'ei, C.
Phytogeography of Chinese Verbenaceae. Contr. Biol. Lab. Sci. Soc. China Bot. Ser. 6:35-38. F.1,1931. no.5.
Abstract from his work on Verbenaceae (not yet published?)

Country Life (London)

Lynes, H.
A pasture poison. Country Life 70:xxiv. O.31,1931. no.1815.
Linum catharticum.

Farming in South Africa (Pretoria)

Gill, G. A.
Corn spurry. Farming South Africa 6:269-270. illus. O.1931. no.67.

McClean, A. P. D.
Bunchy top disease of the tomato. Farming South Africa 6:275-276, 280. illus. O.1931. no.67.
Virus disease.

Forstw. Centralbl. (Berlin)

Podhorsky, J.
Ersatz- bezw. adventiv-wurzelbildung bei der fichte. Forstw. Centralbl. 53:550-553. illus. Ag.1,1931. no.15.

Gard. Chron. (London)

Chittenden, F. J.
Plants causing skin irritation. (concl.) Gard. Chron. III, 90:353. O.31,1931. no.2340.

Comber, H. F.
Some Antarctic beeches. Gard. Chron. III, 90:348, 364-366. illus. O.31, no.7,1931. no.2340,41.
Nothofagus.

Darlington, C. D.
The bearing of chromosome studies on plant breeding. (cont.) Gard. Chron. III, 90:351-353. illus. O.31,1931. no.2340.

Friend, H.
Horticulture in relation to commerce. XVIII Condiments: Pepper and mustard. Gard. Chron. III, 90:364. illus. N.7,1931. no.2341.

Gard. Chron. (London) (cont.)

Ingram, C.
A new gladiolus from Natal. Gard. Chron. III, 90:347. illus. O.31,1931. no.2340.
G. cygneus.

Johnson, A. T.
Geranium pylzowianum. Gard. Chron. III, 90: 362. illus. N.7,1931. no.2341.

Lawrence, E. K.
Gentiana macaulayi, Wells' variety. Gard. Chron. III, 90:346. O.31,1931. no.2340.

Rawes, A. N.
New commercial varieties of fruit. (cont.) Gard. Chron. III, 90:353-354. O.31, 1931. no.2340.

Small, J.
Revelations of a pocket-lens. (cont.) Gard. Chron. III, 90:363. illus. N.7,1931. no.2341.

Gard. Illus. (London)

Darlington, H. R.
Graft disease in roses. Gard. Illus. 53:670-671. O.31,1931. no.2747.

Forster, W. A.
Plants for mild seaside gardens. IV. Metrosideros. Gard. Illus. 53:673. O.31,1931. no.2747.

Gartenbauwiss. (Berlin)

Golińska, H.
Beitrag zur experimentellen morphologie der knollen von radieschen, roter rübe und mohrrübe. Gartenbauwiss. 5:365-388. illus. O.14,1931. no.5.

Harder, R., Keppler, E., and Reuss, H.
Beobachtungen über das pflanzenwachstum und die kohlensäureassimilation bei kohlensäuredüngung und nächtlicher zusatzbeleuchtung. Gartenbauwiss. 5:389-428. illus. O.14,1931.

Kemmer, E.
Historisch-kritische betrachtungen zur frage der kronenform der obstbäume. Gartenbauwiss. 5:429-456. illus. O.14,1931. no.5.

Gartenbauwiss. (Berlin) (cont.)

Osterwalder, A.
Die Nectria-kelchfäule an äpfeln. Gartenbauwiss. 5:469-476. illus. O.14,1931. no.5.

Vogel, F. & Weber, E.
Zur blattrandkrankheit der johannisbeere. Gartenbauwiss. 5:457-468. O.14,1931. no.5.

Gartenschönheit (Berlin)

Lange, A.
Der botanische garten au Kopenhagen. Gartenschönheit 12:178-180. illus. S.1931. no.9.

Schneider, C.
Wasserpflanzen. Gartenschönheit 12:144-147. illus. Ag.1931. no.8.

Genetics

Brink, R. A. & Cooper, D. C.
The association of semisterile - 1 in maize with two linkage groups. Genetics 16:595-628. illus. N.1931. no.6.

Eyster, W. H.
Viviparv in maize. Genetics 16:574-590. illus. N.1931. no.6.

Hadar (Jaffa)

Reichert, I. & Hellinger, E.
Further experiments on the control of Diplodia stem-end rot of citrus fruits by debuttoning. Hadar 4:215-217. O.1931. no.10.

Hong Kong Nat.

Crook, A. H.
Some visitors which have come to stay. Hong Kong Nat. 2:178-184. pl.7-11. S.1931. no.1.
Plant immigrants.

Herklots, G. A. C.
Orchidaceae of Hong Kong IV-V. Hong Kong Nat. 2:30-36, 167-177. illus., 3 pl. F.,S. 1931. no.1,3.

Setchell, W. A.
Hong Kong seaweeds, I. Hong Kong Nat. 2:39-60. illus. F.1931. no.1.

Indian For. Rec.

Champion, H. G. & Pant, B. D.
Investigations on the seed and seedlings of Shorea robusta Gaertn. f. Indian For. Rec. v.16, no.5. 33 p. vi pl. 1931.

Indische Cult. (Soerbaja)

Bleier, H.
De beteekenis van de cytologie voor de plantenveredeling. Indische Cult. 16:643-648. O.16, 1931. no.20.

Jahrb. Wiss. Bot. (Leipzig)

Bunning, E.
Untersuchungen über die autonomen tagesperiodischen bewegungen der primärblätter von Phaseolus multiflorus. Jahrb. Wiss. Bot. 75:439-480. illus. 1931. no.3.

Kadelbach, E.
Ueber säureresistenz und rassenbildung bei Aspergillus niger. Jahrb. Wiss. Bot. 75:399-438. illus. 1931. no.3.

Pohl, F.
Ueber sich öffnende kristallräume in den antheren von Deherainia smragdina. Jahrb. Wiss. Bot. 75:481-493. illus. 1931.

Stocker, O.
Transpiration und wasserhaushalt in verschiedenen klimazonen. I-Untersuchungen an der arktischen baumgrenze in Schwedisch-Lappland. Jahrb. Wiss. Bot. 75:494-549. illus. 1931. no.3.

Journ. Agr. Res. (Washington, D. C.)

Clawson, A. B.
A preliminary report on the poisonous effects of bitter rubber weed (Actinea odorata) on sheep. Journ. Agr. Res. 43:696-701. illus. O.15, 1931(Rec'd N.20) no.8.

Hawkins, R. S.
Methods of estimating cotton fiber maturity. Journ. Agr. Res. 43:733-742. illus. O.15, 1931(Rec'd N.20) no.8.

Journ. Agr. Res. (Washington, D. C.) (cont.)

Neal, D. C. & Ratcliffe, G. T.
Infection experiments with the cotton root-rot fungus, Phymatotrichum omnivorum. Journ. Agr. Res. 43:681-691. illus. O.15,1931(Rec'd N.20) no.8.

Pearson, N. L.
Parasitism of Gibberella saubinetii on corn seedlings. Journ. Agr. Res. 43:569:596. illus. O.1,1931(Rec'd N.12) no.7.

Philipps, M., Davidson, J., & White, H. D.
Studies of lignin in wheat straw with reference to lodging. Journ. Agr. Res. 43:619-626. O.1,1931)Rec'd N.12) no.7.

Taylor, J. W. & Leighty, C. E.
Inheritance in a "constant" hybrid between Aegilops ovata and Triticum dicoccum. Journ. Agr. Res. 43:661-679. illus. O.15,1931. (Rec'd N.20) no.8.

Journ. Agr. Sci. (London)

Evans, R. E.
Studies of the sulphur of pasture grass. I-The cystine content of pasture grass. Journ. Agr. Sci. 21:806-821. O.1931. no.4.

Jensen, H. L.
A comparison of two agar media for counting soil micro-organisms. Journ. Agr. Sci. 21:832-843. O.1931. no.4.

Knowles, F. & Watkin, J. E.
The assimilation and translocation of plant nutrients in wheat during growth. Journ. Agr. Sci. 21:612-637. illus. O.1931. no.4.

Martin, H. & Salmon, E. S.
The fungicidal properties of certain spray-fluids. VIII. The fungicidal properties of mineral tar and vegetable oils. Journ. Agr. Sci. 21: 638-658. O.1931. no.4.

Smith, A. M. & Robertson, I. M.
The influence of the plant upon seasonal changes in soil acidity. Journ. Agr. Sci. 21: 822-831. O.1931. no.4.

Journ. Amer. Soc. Agron. (Geneva, N. Y.)

Goulden, C. H. & Neatby, K. W.
Breeding rust-resistant varieties of spring wheat. Journ. Amer. Soc. Agron. 23:859-870. N.1931. no.11.

Harvey, R. B.
Ammonium thiocyanate as a weed eradicant. Journ. Amer. Soc. Agron. 23:944-946. N.1931. no.11.

Stewart, G.
Correlated inheritance in a cross between Dicklow x Sevier wheat. Journ. Amer. Soc. Agron. 23:916-928. N.1931. no.11.

Willard, C. J.
The moisture content of forage at different times in the day. Journ. Amer. Soc. Agron. 23:853-859. N.1931. no.11.

Journ. Arnold Arb. (Cambridge, Mass.)

Bangham, W. N.
Chromosomes of some Hevea species. Journ. Arnold Arb. 12:287-288. O.1931. no.4.

Buisman, C.
Three species of Botryodiplodia (Sacc.) on elm trees in the United States. Journ. Arnold Arb. 12:289-296. illus., pl.38-39. O.1931. no.4.
B. malorum, B. ulmicola, B. hypodermia.

Burrett, M.
Four new palms collected in the Territory of Papua (British New Guinea) by L. J. Brass. Journ. Arnold Arb. 12:264-269. O.1931. no.4.
Calamus nannostachys, Areca (Balanocarpus) nannospadix, Actinophloeus microcarpus, A. linearis, sp. nov.

Dermen, H.
A study of chromosome number in two genera of Berberidaceae: Mahonia and Berberis. Journ. Arnold Arb. 12:281-287. O.1931. no.4.

Journ. Arnold Arb. (Cambridge, Mass.) (cont.)

Guillaumin, A.

Contribution to the flora of the New Hebrides. Plants collected by S. F. Kajewski in 1928 and 1929. Journ. Arnold Arb. 12:221-264. O.1931. no.4.

Martelli, U.

Two Pandanaceae from the New Hebrides collected by S. F. Kajewski. Journ. Arnold Arb. 12:269-270. O.1931. no.4.

Pandamus cominsii, Freycinetia tannaensis, sp. nov.

Metcalf, F. P.

Notes on Chinese plants. Journ. Arnold Arb. 12:270-275. O.1931. no.4.

Rehder, A.

Notes on the ligneous plants described by H. Léveillé from Eastern Asia. (cont.) Journ. Arnold Arb. 12:275-281. O.1931. no.4.

Journ. Chem. Soc. London

Anderson, J. A.

The yellow colouring matter of Khapli wheat, Triticum dicoccum. Journ. Chem. Soc. London 1931:2624-2625. O.1931.

Investigations to find substance toxic to rust.

Journ. Dept. Agr. Kyushu Imp. Univ. (Fukuoka, Japan)

Kosaka, H.

Die beziehungen zwischen den verschiedenen physiologischen erscheinungen der pflanzen und den an verschiedenen vegetationsorganen in erscheinung tretenden farbstoffen III. mitt. Ueber die beziehungen zwischen der wachstumstätigkeit und der anthocyanbildung bei Abutilon avicennae. Journ. Dept. Agr. Kyushu Imp. Univ. 3:99-119. S.25,1931. no.5.

Journ. Dept. Agr. Porto Rico (Rio Piedras)

Ciferri, R.

Studies on cacao. Journ. Dept. Agr. Porto Rico 15:223-286. pl.xxviii-xxxv. Jl.1931. (Rec'd N.) no.2.

I. Actinomycetes on cacao beans. II. Fungous flora of dry cacao beans. III. Cacao moulding. IV. Tests for enzymes of cacao. V. An improved method for the desiccation of cacao beans.

Journ. Dept. Agr. Porto Rico (Rio Piedras) (cont.)
Nolla, J. A. B.
Studies on the bacterial wilt of the Solanaceae in Porto Rico. Journ. Dept. Agr. Porto Rico 15:287-308. pl.xxxvi-xxxix. Jl.1931(Rec'd N.) no.2
Affects tomato, potato, eggplant and pepper, Solanum torvum, S. nigrum and zinnias but not tobacco. Organism probably a strain of Bacterium solanacearum (Phytomonas solanaceara).

Journ. Econ. Entom. (Geneva, N. Y.)
Fenner, L. M.
Bacterial canker of tomato and its distribution with the seed from infected fruit. Journ. Econ. Entom. 24:544-547. Ap.1931. no.2.

Journ. Hered. (Washington)
Eyster, W. H.
Heritable characters of maize. XLI. Dilute aleurone. XLII. Reduced endosperm. Journ. Hered. 22: 225, 251-252. illus. Jl.,Ag.1931. no.7,8.

Horlacher, W. R. & Killough, D. T.
Radiation-induced variation in cotton. Somatic changes induced in Gossypium hirsutum by X-raying seeds. Journ. Hered. 22:253-262. illus. Ag.1931. no.8.

Journ. Indian Chem. Soc. (Calcutta)
Siddiqui, S. & Siddiqui, R. H.
Chemical examination of the roots of Rauwolfia serpentina, Benth. Journ. Indian Chem. Soc. 8:667-680. illus., 2 tab. S./O.1931. no.9/10.

Journ. Min. Agr. Gt. Brit. (London)
Oliver, F. W. & Bryce, J.
Further notes on the economic possibilities of rice grass. Journ. Min. Agr. Gt. Brit. 38:798-805. 8 pl. on 4. N.1931. no.8.
I. Plantings in Holland. II. Plantings in Sussex. Spartina townsednii.

Journ. New Zeal. Inst. Hort.
Aston, B. C.
Superior New Zealand plants suitable for cultivation.(cont.) Journ. New Zeal. Inst. Hort. 3:1-8. 2 pl. on 1. S.1931. no.1.

Snow, C.
Magbolias - history and culture. Journ. New Zeal. Inst. Hort. 2:8-12. S.1931. no.1.

Journ. Washington Acad. Sci.

Walker, E. H.

Four new species of Myrsinaceae form China. Journ. Washington Acad. Sci. 21:477-480. illus. N.19,1931. no.19.

Ardisia scalarinervis, Rapanea kwangsiensis, Maesa macilenta, M. salicifolia.

Madroña (San Francisco)

Gillespie, D. K.

Records of plants new to California. Madrona 2:35-36. O.1931. no.4.

Howell, J. T.

A variant of the coast live oak. Madroña 2:38-39. O.1931. no.4.

Quercus agrifolia oxyadenia, Q. exyadenia.

Jepson, W. L.

Biographical sketch of Patrick Beveridge Kennedy. Madroña 2:34-35. port. O.1931. no.4.

Meyer, F. A.

The San Lorenzo laurel. Madroña 2:37-38. O.1931. no.4.

Umbellularia californica.

Purdy, C.

Bolander's Red mountain and Eureka trail. Madroña 2:33-34. O.1931. no.4.

Where Lilium bolanderi was discovered.

Malayan Agr. Journ. (Kuala Lumpur)

Georgi, C. D. V.

The removal of plant nutrients in oil palm cultivation. Malayan Agr. Journ. 19:484-489. O.1931. no.10.

Maryland Fruit Grow.

Overholser, E. L. & Overley, F. L.

Pollination of certain apple bud sports in north central Washington. Maryland Fruit Grow. 1)10):5-9. F.1931. no.10.

Mem. Coll. Sci. Kyoto Imp. Univ. Ser. B
Hamada, H.
Ueber die beeinflussung des wachstums des mesokotyls und der koleoptile von Avena-keimlingen durch das licht. Mem. Coll. Sci. Kyoto Imp. Univ. Ser. B, 6:161-238. Je.1931. no.4.

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)
Wollenweber, H. W. & Richter, H.
Insektionsversuche mit Graphium ulmi an ulmen und anderen laubbäumen. Nachrichtenbl. Deut. Pflanzenschutzd. 11:89. N.1931. no.11.

Nature (London)
Hill, T. C.
The advancement of botany. Nature 128:780-783. N.7,1931. no.3236.

Hopwood, F. L.
Biological effects of ultrasonics. In his Ultrasonics: Some properties of inaudible sound. Nature 128:750-751. illus. O.31, 1931. no.3235.
Experiments with Nitella.

Nature Mag. (Washington, D. C.)
Smitherman, I. T.
Yaupon, shrub of holiday hues. Nature Mag. 18:352-353. illus. D.1931. no.6.
Ilex vomitoria.

Nauk. Zapiski Tsukr. Prom. [Sci. Contr. Sugar Ind.] (Kiif)
Kharechko-Savitskaja, E. I.
Metodika i tekhbika iskusstevennoi gibridizatsii svekly (Methodik und technik der kunstlichen bastardierung bei der zuckerrube). Nauk. Zapiski Tsukr. Prom.(Sci. Contr. Sugar Ind.) 13:613-632. 6 pl. on 3. 1931. no.2.
Russian with German summary.

Solunskaja, N.
Uredinoz sakharnoi svekly (Uredynos of sugar beet). Nauk. Zapiski Tsukr. Prom. (Sci. Contr. Sugar Ind.) 13:609-611. pl. 1931. no.2.
Uromyces betae.
Russian.

New Phytol. (London)

Chapman, G. W.

The relation of iron and manganese to chlorosis in plants. New Phytol. 30:265-283. O.30,1931. no.4.

Flower mutations in the primrose. I-II. New Phytol. 30:285-289, 289-297. illus. O.30, 1931. no.4.

I. Origins and genetics. By E. M. Marsden-Jones and W. B. Turrill.

II. Morphological and anatomical investigation. By. H. M. Montford.

Howland, L. J.

A four year's investigation of a Hertfordshire pond. New Phytol. 30:221-265. diagrs. O.30, 1931. no.4.

Lowndes, A. G.

Note on individual variation in Paris quadrifolia L. New Phytol. 30:298-299. O.30,1931. no.4.

Orchid Rev. (Richmond, England)

Leaney, R. F.

Orchids of Australia. Orchid Rev. 39:336-338. N.1931. no.461.

Pflanzenbau (Berlin)

Honecker, L.

Beiträge zum mehltauproblem bei der gerste mit besonderer berücksichtigung der züchterischen seite. (cont.) Pflanzenbau 8:89-106. O.1931. no.4.

Pharm. Acta Helv. (Zurich)

Béguin, Ch

Recherches biochimique des glucides dans quelques plantes du Jura Neuchâtelois. Pharm. Acta Helv. (Zürich) 6:195-200. O.31,1931. no.10.

Pharm. Zentralh. (Dresden)

Rosenthaler, L.

Ueber saponin in Bellis perennis L. Pharm. Zentralh. 72:673. O.22,1931. no.43.

Philipp. Agr. (Los Baños)
Briones, G. R.
A study of the salt requirements of coco-seedlings grown in pots. Philipp. Agr. 20:352-361. O.1931. no.5.

Gonzalez, L. G.
A study of the respiration of the chicho, Achras zapota Linn. Philipp. Agr. 20:341-348. illus. O.1931. no.5.

Ocfemia, G. O.
The bunchy-top of abacá and its control. Philipp. Agr. 20:328-340. illus. O.1931. no.5.

Philipp. Journ. Agr.
Calinisan, M. R.
The occurrence of bunchy-top and root-knot in abaca. Philipp. Journ. Agr. 2:121-125. 3 pl. 1931. no.2.

Phytopath.
Abbott, E. V.
Further notes on plant diseases in Peru. (cont.) Phytopath. 21:1061-1071. N.1931. no.11.

Craigie, J. H.
An experimental investigation of sex in the rust fungi. Phytopath. 21:1001-1040. illus. N.1931. no.11

LeClerg, E. L.
Distribution of certain fungi in Colorado soils. Phytopath. 21:1073-1081. N.1931. no.11.

Marshall, R. P.
A rubber dressing for tree wounds. Phytopath 21:1089-1091. N.1931. no.11.

Smith, C. O.
Pseudomonas prunicola and Bacterium citriputeale. Phytopath. 21:1091. N.1931. no.11.
P. prunicola very similar to, if not identical with, Bact. syringae, B. citriputeale, & B. cerasi.

Phytopath. (cont.)

Strong, F. C. & Strong, M. C.
Investigations on the black root of strawberries. Phytopath. 21:1041-1060. illus. N.1931. no.11.
Causal organisms, Coniothyrium stage of Leptosphaeria coniothyrium & Hainesia stage of Pezizella lythri.

Valleau, W. D. & Johnson, E. M.
The viruses concerned in a natural epiphytotic streak in tomatoes. Phytopath. 21:1087-1089. N.1931. no.11.

Wilson, J. K.
Nodule production on etiolated vetch seedlings. Phytopath. 21:1083-1085. illus. N.1931. no.11.

Planta Arch. Wiss. Bot. (Berlin)

Arcichovskii, V., Kisselew, N., Krassulin, N.,Menjinskaja,E. & Ossipov. A.
Untersuchungen über die saugkraft der pflanzen. I-V. Planta Arch. Wiss. Bot. 14:517-527, 528-532, 533-544, 545-551, 552-565. illus. O.20, 1931. no.3/4.
I. Über die methoden der saugkraftmessungen. II. Die gravimetrische methode der saugkraftmessungen an den blättern. III. Die saugkraft der bäume. Saugkraftmessungen nach der potometermethode. IV. Saugkraftmessungen nach der schlierenmethode. V. Die saugkraft der baumartigen pflanzen der zentral-asiatischen wüsten, nebst transpirationsmessungen am saxaul (Arthrophytum haloxylon Litw.)

Bothe, F.
Ueber das leuchten verwesender blätter und seine erreger. Planta Arch. Wiss. Bot. 14:752-765. O.20,1931. no.3/4.

Daumann, E.
Bildungsabweichungen in einer zingiberaceenblüte. Planta Arch. Wiss. Bot. 14:777-781. illus. O.20,1931. no.3/4.
Brachychilus horsfiedlii.

Planta Arch. Wiss. Bot. (Berlin) (cont.)

Daumann, E.
Zur morphologie und ökologie der blüte von Stratiotes aloides L. Planta Arch. Wiss. Bot. 14:766-776. illus. O.20,1931. no.3/4.

Knapp, E.
Entwicklungsphysiologische untersuchungen an fucaceen-eiern. I. Zur kenntnis der polarität der eier von Cystosira barbata. Planta Arch. Wiss. Bot. 14:731-751. illus. O.20,1931. no.3/4.

Kultzscher, M.
Die biologische NH_3-entgiftung in höheren pflanzen in ihrer abhängigkeit von der wasserstoff-ionenkonzentration des zellsaftes. (Vorläufige mitteilung). Planta Arch. Wiss. Bot. 14:782-783. O.20,1931. no.3/4.

Meyer, F. J.
Ueber die unterscheidung der diaplektischen und radialen leitbündel. Planta Arch. Wiss. Bot. 14:677-681. O.20,1931. no.3/4.

Michaelis, P.
Entwicklungsgeschtliche-genetische untersuchungen an Epilobium. I. Untersuchungen zur tetradenanalyse. Planta Arch. Wiss. Bot. 14: 566-582. illus. O.20,1931. no.3/4.

Pirschle, K.
Nitrate und ammonsalze als stickstoffquellen für höhere pflanzen bei konstanter wasserstoffionen konzentration. III. Planta Arch. Wiss. Bot. 14:583-676. O.20,1931. no.3/4.

Strey, M.
Karyologische studien an Borraginoideae. Planta Arch. Wiss. Bot. 14:682-730. illus. O.20,1931. no.3/4.

Planter (Kuala Lumpur)

Sharples,
Fomes pseudo ferreus. Planter (Kuala Lumpur) 12:88-89. O.1931. no.3.
On Hevea.

Proc. Akad. Wetensch. Amsterdam

Algera, L.
An automatic micro compensation-calorimeter. Proc. Akad. Wetensch. Amsterdam 34:906-917. 1931. no.6.

Kok, A. C. A.
Ueber den einfluss der plasmarotation auf den stofftransport. Proc. Akad. Wetensch. Amsterdam 34:918-929. illus. 1931. no.6.

Wey, H. G. van der
Die quantitative arbeitsmethode mit wuchsstoff. Proc. Akad. Wetensch. Amsterdam 34:875-892. illus. 1931. no.6.
Oats and maize.

Proc. Roy. Soc. Ser. B. (London)

Smith, K. M.
On the composite nature of certain potato virus diseases of the mosaic group as revealed by the use of plant indicators and selective methods of transmission. Proc. Roy. Soc. Ser. B 109:251-267. pl.30-33. N.3,1931. no.B762.

Proc. Soc. Exp. Biol. & Med. (N.Y.)

Lamson, R. W.
Evidence of biologic relationships among species of Chenopodiales. Proc. Soc. Exp. Biol. & Med. 28:502-504. F.1931. no.5.

Protoplasma (Leipzig)

Gicklhorn, J. & Dejdar, E.
Beobachtungen an elektrisch gereizten pflanzenzellen und die frage des nachweises reversibler permeabilitätserhöhung. Protoplasma 13:592-616. illus. S.1931. no.3/4.

Gicklhorn, J.
Zur diskussion der grundlagen und beweise der ultrafiltertheorie der permeabilität. Protoplasma 13:567-591. S.1931. no.3/4.

Pokarek, J.
Absolute viskositätsmessungen mit hilfe der brownschen molekularbewegung. III. Viskositätsmessungen des sellsaftes der protonemazellen von Leptobryum piriforme. Protoplasma 13:637-665. illus. S.1931. no.3/4.

Protoplasma (Leipzig) (cont.)
Pokarek, J. & Fürth, R.
Ueber die richtung der protoplasma-strömung in benachbarten Elodea-blatt-zellen. Protoplasma 13:666-700. illus. S.1931. no.3/4.

Publ. Field Mus. Nat. Hist. Bot. Ser.
Macbride, J. F.
Spermatophytes, mostly Peruvian III. Publ. Field Mus. Nat. Hist. 288 Bot. Ser. 11:3-35. My.29,1931. no.1.
I. Some Peruvian Convolvulaceae with a new variety. II. New and old Peruvian plants.

Standley, P. C.
The Nyctaginaceae and Chenopodiaceae of northwestern South America. Publ. Field Mus. Nat. Hist. 303 Bot. Ser. 11:73-126. O.20,1931. no.3.

Standley, P. C.
The Rubiaceae of Venezuela. Publ. Field Mus. Nat. Hist. 302 Bot. Ser. 7:343-485. O.12, 1931. no.4.

Queensl. Agr. Journ. (Brisbane)
Simmonds, J. H.
Soft rot (water blister) of pineapples. Queensl. Agr. Journ. 42:394-398. illus., pl.100. O.1,1931. no.10.
Thielaviopsis paradoxa.

Repert. Spec. Nov. Beih. (Dahlem bei Berlin)
Hayek, A.
Prodromus florae peninsulae Balcanicae. v.2, lfg.6, S.20,1931 (Repert. Spec. Nov. Fedde Beih. v.30)

Rep. Hokkaido Agr. Exp. Stat.
Iwadare, S.
On the spot-disease of pea-seeds. Rep. Hokkaido Agr. Exp. Stat. 26:45-59. ii pl. Mr.1931.
Japanese with English summary on leaf at end.
Alternaria fasciculata.

Rev. Bot. Appl. (Pan's)

Chevalier, A.
Les Amorphophallus et leurs usages. Rev. Bot. Appl. 11:809-813. illus. O.1931. no.122.

Chevalier, A.
Plantes à parfums de Guinéé francaise. Rev. Bot. Appl. 11:831-833. O.1931. no.122.

Dufrénoy, J.
Insecticides et anticryptogamiques, d'après les récents travaux étrangers. Rev. Bot. Appl. 11:825-831. O.1931. no.122.

Navarro de Andrade, E.
Les eucalyptus comme arbres de reboisement pour les pays tropicaux et subtropicaux. (suite et fin) Rev. Bot. Appl. 11:741-757, 838-845. illus., pl. xx. Ag./S.,O.1931. no.121-122.

Perrier de la Bathie, H.
Les plantes introduites à Madagascar. (suite* Rev. Bot. Appl. 11:833-837. O.1931. no.122.

Rhodesia Agr. Journ. (Salisbury)

Hopkins, J. C. F.
Care of tobacco seed-beds. Rhodesia Agr. Journ. 28:911-918. O.1931. no.10.

Rhodora (Boston)

Fassett, N. C.
Notes from the herbarium of the University of Wisconsin VII. Rhodora 34:224-228. N.1931. no.395.

Fernald, M. L.
Three antennarias from Greenland. Rhodora 34:222-224. N.1931. no.395.
A. affinis, A. brevistyla, n.spp. A. labradorica.

Morse, A. P.
The American lotus at West Peabody, Massachusetts. Rhodora 33:230. N.1931. no.395.

Plitt, C.C.
Two abnormalities of Podophyllum peltatum. Rhodora 34:228-229. illus. N.1931. no.395.
P. peltatum f. aphyllum f. nov., P. peltatum f. polycarpum Clute.

Rhodora (Boston) (cont.)
Porsild, M. P.
On the "papillose" achenes in the genus Antennaria. Rhodora 34:213-222. illus. N.1931. no.395.

Riv. Ital. Essen. e Profumi (Milano)
Guidotti, R.
Gomme e resine della zona de Oddur (Somalia italiana regione dei Rahanuin). Riv. Ital. Essen. e Profumi 13:228-233. illus. Ag.15, 1931. no.8.

Riv. Patol. Veg. (Pavia)
Pasinetti, L.
Ricerche anatomo-fisiologische sulla punta nera del frumento argentino San Martin. Riv. Patol. Veg. 21:145-156. iv pl. My./Je.1931. no.5/6.

Pasinetti, L.
Le teleutospore di Puccinia graminis e la loro refrattarietà all'azione dei raggi X. Riv. Patol. Veg. 21:137-143. My./Je.1931. no.5/6.

Passalacqua, T.
Una epidemia di grusone del nespolo del giappone (Eriobotryia japonica Landl.) dovuta al Bacillus amylovorus (Burril) Trevisan. Riv. Patol. Veg. 21:157-160. My./Je.1931. no.5/6.

Sbornik SSU Sortov.-Semen. Upravl. Sakhar. (Bull. P.B.S.G.D. Sugar Union) (Kiev)
Grushevoi, S. E.
Kovoprosu ob usloviiakh Razvitiia i vredonosnosti koronchatoi rzhavchinu obsa [On the question of the condition of development and injuriousness of crown rust of oats] Sbornik SSU Sortov.-Semen. Upravl. Sakhar. (Bull. P.B.S.G.D. Sugar Union) 11:45-56. 1930(Rec'd O.1931)
Russian.

Smirnov, S. A.
Bakteriozy sakharnoi svekly (Die bakteriose der zuckerrübe) Sbornik SSU Sortov.-Semen. Upravl. Sakhar. (Bull. P.B.S.G.D. Sugar Union) 11:23-44. illus. 1930(Rec'd O.1931.)
Russian with brief German summary.

Science (Lancaster, Pa.)

Berg, A.
The causative organism of a papular type of apple measles. Science 74:485-486. N.13, 1931. no.1924.
Clasterosporium sp.

Burk, D., Lineweaver, H., Horner, C. K. & Allison, F. E.
The relation between iron, humic acid and organic matter in the nutrition and stimulation of plant growth. Science 74:522-524. N.20,1931. no.1925.

Church, M. B.
The sugar tolerance of yeasts expressed in atmospheres. Science 74:492-493. N.13,1931. no.1924.

Loomis, W. E., Bissey, R. & Smith, E. V.
Chlorates as herbicides. Science 74:485. N.13,1931. no.1924.

Mold infection of fruit. Science v.74, no.1924. Suppl. p.12.
Invention of Rev. H. T. O'Neill & Dr. A. J. Harriman of Washington, D. C. for detecting mold-susceptible specimens.

Olitsky, P. K. & Forsbeck, F. C.
Concerning an increase in the potency of mosaic virus in vitro. Science 74:483-484. N.13,1931. no.1924.

Scient. Agr. (Ottawa)

Neatby, K. W.
Factor relations in wheat for resistance to groups of physiologic forms of Puccinia graminis Tritici. Scient. Agr. 12:130-154. illus. N.1931. no.3.

Newton, W.
The physiology of Rhizoctonia. Scient. Agr. 12:178-182. N.1931. no.3.

Peterson, R. F.
Stomatal behavior in relation to the breeding of wheat for resistance to stem rust. Scient. Agr. 12:155-173. illus. N.1931. no.3.

Scient. Month. (Lancaster, Pa.)
Trelease, S. F.
The work of Dr. Burton E. Livingston as permanent secretary of the American association. Scient. Month. 32:281-283. port. Mr.1931. no.3.

Soil Sci. (Baltimore)
Starkey, R. L.
Some influences of the development of higher plants upon the microorganisms in the soil. IV. Influence of proximity to roots on abundance and activity of microorganisms. V. Effects of plants upon distribution of nitrates. Soil Sci. 32: 367-393, 395-404. N.1931. no.6.

Succulenta (Leeuwarden)
Balen, J. C. van
Zuid-Afrikaansche aloe's. (cont.) Succulenta 13:217-221. N.1931. no.11.

Tischer, A.
Conophytum, N. E. Br. Nieuwe soorten, nieuwe
4 vindplaatsen, bloemen. II. Succulenta 13:221-226. illus. N.1931. no.11.

Suomen Maataloust. Seuran Julk. (Acta Agralia Fenn.) (Helsinki)
Parvela, A.A.
Petsamon alueen viljelyskasviston historia ja levinneisyys (Geschichte und verbreitung der kulturpflanzen in Petsamo) Suomen Maataloust. Seuran Julk. (Acta Agralia Fenn.) 23:33-97. illus.(map) 1931.
Finnish with German summary.

Tidsskr. Planteavl (København)
Christiansen, E.
Sortsforsøg med lave, grønne bønner. 1926-28. Tidsskr. Planteavl 37:610-640. illus. 1931. no.4.

Dullum, N.
Forsøg med kombination af svovlkalk-og Bordeaux-vaedskesprøjtninger til aebletraeer. Tidsskr. Planteavl 37:641-658. illus. 1931. no.4.
English summary (Experiments using a combination of lime sulphur and Bordeaux mixture sprays on apple trees): p.656-658.

Tidsskr. Planteavl (Kobenlavn) (cont.)
Gram, E.
Afsvampningsundersøgelser. IV. Udbytteforsøg med kornarterne. (Seed disinfection. IV. Yield determinations in wheat, rye, barley and oats.) Tidsskr. Planteavl 37:659-674. 1931. no.4.

Tijdschr. Plantenz.
Elze, D. L.
De overgang van virusziekten met het zaad, in het biozonder bij de aardappel. Tijdschr. Plantenz. 37:189-197. pl.xviii-xix. 1931. no.10.

Trop. Agriculture West Indies (Trinidad)
Briton-Jones, H. R.
Trinidad plant diseases. Notes on some dieseases of main crops in Trinidad. Trop. Agriculture West Indies 8:300-302. N.1931. no.11.
Cocoa, coconut palm, sugar-cane, citrus, coffee.

Wardlaw, C. W.
Banana diseases. II. Notes on "cigar-end" (Stachylidium theobromae Turc.) Trop. Agr. 8:293-298. N.1931. no.11.

Trop. Woods, Yale Univ. Sch. For. (New Haven, Conn.)
Garratt, G. A.
Philippine dao (Dracontomelum dao). Trop. Woods, Yale Univ. Sch. For. 27:1-11. S.1,1931.

Record, S. J.
Notes on Brazilian timbers. Trop. Woods, Yale Univ. Sch. For. 27:14-15. S.1,1931.
Hudoke (Bowdichia nitida and, or B. vigilioides), macawood (Platymiscium sp., possibly P. uhlei) ipé peroba (Paratecoma peroba)

Standley, P. C.
Two new trees from South America. Trop. Woods, Yale Univ. Sch. For. 27:12-13. S.1,1931.
Sickingia sampaionna, Machaerium melanophyllum.

Standley, P. C.
Vernacular names of Sinaloa trees and shrubs collected by J. G. Ortega. Trop. Woods, Yale Univ. Sch. For. 27:17-20. S.1,1931.

Williams, L.
Note on walnut in northeastern Peru. Trop. Woods, Yale Univ. Sch. For. 27:16-17. S.1,1931.
Juglans peruviana.

Die Umschau (Frankfurt)

Corell, L.
Yucca, die neue deutsche faserpflanze. Die Umschau 35:896-898. illus. N.7,1931. no.45.

Schlichter, C.
Chinosol zur pflanzenkonservierung. Die Umschau 35:851. illus. O.24,1931. no.43.

U. S. Dept. Agr. Techn. Bull.

Richey, F. D. & Sprague, G. F.
Experiments on hybrid vigor and convergent improvement in corn. U. S. Dept. Agr. Techn. Bull. 287. 22 p. illus. O.1931.

Univ. Calif. Publ. Agr. Sci. (Berkeley)

Shill, A. C.
The respiration of citrus as affected by hydrocyanic acid gas fumigation. Univ. Calif. Publ. Agr. Sci. 5:167-180. illus. 1931. no.5.

Univ. Iowa Stud. Nat. Hist. (Iowa City)

Wolf, M. M.
The Polyporaceae of Iowa. Univ. Iowa Stud. Nat. Hist. v.14, no.1. 93 p. illus. O.15, 1931.

Vses. Nauchno-Issled. Inst. Zerna Prod. Perer. [Trudy] (Sci. Inst. Cereal Res. Moscow U.S.S.R.) [Publ.]

Bilenko, R. A.
Sorniaki khlebov Turkestana (Contamination of Turkestan grain with weed seeds) Vses. Nauchno-Issled. Inst. Zerna Prod. Perer. [Trudy] (Sci. Inst. Cereal Res. Moscow U.S.S.R. [Publ.]) no.2. 32 p. illus. 1931.

Proskuriakov, N.
O prirode i khimicheskom sostave rastitel'nykh fosfatidov (The nature and chemical composition of plant phospholipins) Vses. Nauchno-Issled. Inst. Zerna Prod. Perer [Trudy] (Sci. Inst. Cereal Res. Moscow U.S.S.R. [Publ.]) no.4. 21 p. 1931.
Russian.
Lupinus polyphyllus.

Vict. Nat. (Melbourne)

Grimwade, W. R.
The colour of gum flowers. Vict. Nat. 48: 117-118. O.1931. no.6.

Nicholls, W. H.
A revision of certain species of the genus Prasophyllum R. Br. Vict. Nat. 48:105-112. illus. O.1931. no.6.
P.morrisii n.sp.

Wiss. Arch. Landw. Abt. A. Pflanzenbau (Berlin)

Berkner, F. W. & Schlimm, W.
Untersuchungen über den wasserverbrauch verschiedener kartoffelsorten. (Eine studie zur ökologie der kartoffelsorten.) Wiss. Arch. Landw. Abt. A. Pflanzenbau 7:569-589. O.22,1931. no.4.

Krasnosselsky-Maximov, T. A.
Zur untersuchung von winter- und sommer-getreidesaatgut in laboratorium. Wiss. Arch. Landw. Abt. A. Pflanzenbau 7:562-568. illus. O.22,1931. no.4.

Walle, O.
Inzuchtuntersuchungen bei Festuca rubra L. Wiss. Arch. Landw. Abt. A. Pflanzenbau 7:586-606. O.22,1931. no.4.

Zashch. Rast. (Plant Prot. Leningrad)

Abramov, I. N.
Protravka semian formalinom v opilakakh (The treating of seeds with formalin in saw-dust) Zashch. Rast. (Plant Prot. Leningrad) 8:155-159. Jl.1931. no.2.
Russian.

Balakhonov, P. I.
K voprosu o sortirovke urozhaia. O prichinakh gnili iablok v lezhke (On the question of cropsorting. About the causes of apple-rot in storage) Zashch. Rast. (Plant Prot. Leningrad) 8:35-37. My.1931.
Russian.

Bogoiavlenskii, A. A.
Uchet nekotorykh boleznei tomatov (Estimation of some tomato diseases) Zasch. Rast. (Plant Prot. Leningrad) 7:173-174. 1931. no.1/3.

Zashch, Rast. (Plant Prot. Leningrad) (cont.)

Bogoiavlenskii, A. A.
Sortoispytanie kapustnoi rassady na porazhennost chernoi nozhkoi (Tests of sorts of cabbage sprouts in regard to their infection with black leg) Zashch. Rast. (Plant Prot. Leningrad) 7:175-177. 1931. no.1/3.
Russian.

Bogoiavlenskii, A. A.
Vliianie razmoi prodolzhitel'nosti protravlivaniia v rastvore formalina na vskhozhest semian pshenitsy, ovsa i prosa (Effect of the duration of formaline disinfection on the germinatiin of grains of wheat, oats and millet) Zasch. Rast. (Plant Prot. Leningrad) 7:179-181. 1931. no.1/3.
Russian.

Dodonov, V. A.
K metodike polevogo ispytaniia insekto-fungitsidov (On the methods of the field testing of insecticides and fungicides) Zasch. Rast. (Plant Prot. Leningrad) 8:135-148. Jl.1931. no.2.
Russian with English summary.

Natal'ina, O.
Predvaritel'noe soobshchenie o bolezni l'na, vyzyvaemoi gribkom Phlyctaena linicola S. i obnaruzhennoi na Dal'nem Vostoke letom 1930 goda (Preliminary report on a flax disease caused by Phlyctaena linicola S., found in the Far-East in summer 1930) Zashch. Rast. (Plant Prot. Leningrad) 8:177-183. illus. Jl.1931. no.2.

Riakhovskii, N.
Opredelitel gribnykh boleznei anisa i koriandra (The key of the anise and coryander fungus diseases) Zashch. Rast. (Plant Prot. Leningrad) 8:185-186. Jl.1931. no.2.
Russian.

Rodogin, M. N. & Papaev, N. A.
Mornevoi rak plodovykh derev'ev v Nizhnem Povolzh'i (The corwn gall of fruit trees in the lower-Volga region) Zashch. Rast. (Plant Port. Leningrad) 7:113-119. 1931. no.1/3.
Russian.

Zashch. Rast. (Plant Prot. Leningrad) (cont.)

Rothers, B. V.

O dvukh novykh gribkakh, naidennykh v Severo-Dvinskom Okryge (Two new fungi from North Dvina district) Zashch. Rast. (Plant Prot. Leningrad) 7:165. 1931. no.1/3.

Russian with Latin diagnoses (Phyllosticta lupinicola sp.n., Mastigosporium album var. latisporum).

First fungus on Lupinus angustifolius, 2d, on Alopecurus pratensis.

Vanin, S. I.

Mery bor'by s domovymi gribami (The control of Merulius lacrimans) Zashch. Rast. (Plant Prot. Leningrad) 8:25-34. My.1931. no.1.

Russian.

Zeitschr. Pflanzenernahr. Dung. u. Bodenk. A, Wiss. Teil (Leipzig)

Jessen, W.

Die marmorierung der blätter der getreidearten, eine magnesiummangelerscheinung. Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A, Wiss. Teil 22:129-135. illus. 1931. no.3/4.

Pirschle, K.

Nitrate und ammonsalze als stickstoffquellen für höhere pflanzen bei konstanter wasserstoffionen-konzentration. IV. Zeitschr. Pflanzerenähr. Düng. u. Bodenk. A, Wiss. Teil 22:1-86. 1931. no.1/2.

Sekera, F.

Die beurteilung der wasserversorgung der pflanze als standortsfaktor. Zeitschr. Pflanzenernähr. Düng. u. Bodenk. A, Wiss. Teil 22:152-190. illus. 1931. no.3/4.

Zeitschr. Zücht. A. Pflanzenzücht. (Berlin)

Berg, V.

Züchtung des Sagnitzer roggens 1930/31. Zeitschr. Zücht. A Pflanzenzücht. 16:657-661. O.1931. no.4.

Mahling, M.

Die entwicklung und der gegenwärtige stand der deutschen futterpflanzenzüchtung. Zeitschr. Zücht. A Pflanzenzücht. 16:558-637. illus., fold. tab. O.1931. no.4.

Zeitschr. Zücht. A Pflanzenzücht. (Berlin) (cont.)
Plotnikowa, T. W.
Einfluss der röntgenstrahlen auf die reduktion-
steilung von weizen. Zeitschr. Zücht. A Pflanzen-
zücht. 16:662-668. illus. O.1931. no.4.

Rave, L.
Die tabaksamengewinnung und ihre bedeutung
für die züchtung. Zeitschr. Zücht. A Pflanzen-
zücht. 16:548-557. O.1931. no.4.

Tavcar, A.
Vegetationsdauer bei mais im verhältnis zur
spaltöffnungsanzahl und -länge. Zeitschr. Zücht.
A Pflanzenzucht. 16:537-547. O.1931. no.4.

Zentralbl. Bakt. Abt. II (Jena)
Rant, A.
Ueber eine bakterienkrankheit bei dem melonen-
baume (Carica papaya Linn.) auf Java. Zentralbl.
Bakt. Abt. II 84:481-487. illus. O.31,1931.
no.23/26.

Der Züchter (Berlin)
Christiansen-Weninger, F.
Bedeutung der landsorten für die pflanzen-
züchtung. Der Zuchter 3:321-323. O.1931.
no.10.

Gleisberg, W.
Die kernobstunterlagenselektion in England.
Der Zuchter 3:305-321. illus. O.1931. no.10.

Herzfeld-Wuesthoff, F.
Zur erteilung des ersten pflanzenpatentes in
den Vereinigten Staaten. Der Züchter 3:327-
328. illus. O.1931. no.10.

Tschermak, E. v
Richard Wettstein ritter von Westersheim. Der
Zuchter 3:323-326. port. O.1931. no.10.

Exper. Stat. Publ.
Coons, G. H. & Strong, M. C.
The diagnosis of species of Fusarium by use
of growth-inhibiting substances in the culture
medium. Michigan Agr. Exp. Stat. Tech. Bull.
no.115. 78 p. incl. 7 pl. on 4. Jl.1931.

Exper. Stat. Publ. (cont.)

Sitton, B. G.
Vegetative propagation of the black walnut. Michigan Agr. Exp. Stat. Tech. Bull. 119. 45 p. illus. S.1931.
With special reference to the factors influencing callus formation and union in grafting.

Blake, M.A., Davidson, O.W., Addoms, R.M. & Nightingale, G.T.
Development and ripening of peaches as correlated with physical characteristics, chemical composition, and histological structure of the fruit. flesh: II.Physical measurements of growth and flesh texture in relation to the market and edible qualities of the fruit. New Jersey Agr. Exp. Stat. Bull. 525. 35 p. illus. S.1931.

Cook, M. T.
Enfermedades de la cana de azucar en Puerto Rico. Puerto Rico Estac. Exp. Insul. Circ. 94. 45 p. illus. 1931.
Traducción por Fernando Chardón.

New Books.

Abramov, I. N.
Gribnye bolezni soevykh bobov na Dal'nem Vostoke [Parasitic fungi of the soy bean in Dal'ne Vostoke] In Bolezni i vrediteli soevykh bobov na Dal'nem Vostoke. Vladivostok, 1931. p.3-84. illus., fold. tab.

Bonnier, G.
Flore complète illustrée en couleurs de France... Suisse et Belgique... t. 11 par R. Douin. fasc. 109, pl.649-654. Paris, [1931]

Conard, H. S.
The embryophyta of the Okoboji region. Liverworts and mosses. H.S. Conard. Vascular plants. A. P. Kelley. [n.p.] 1931.
Typewritten.

Faber, F. C. von
The crater plants of Java, in physiological and ecological aspect. Translation editor, Howard C. Abbott... Seattle, Washington, Economy publishers, 1931.

New books. (cont.)

Gassner, G.
Mikroskopische untersuchung pflanzlicher nahrungs-und genussmittel. Jean, G. Fischer, 1931.

Goebel, K.
Blutenbildung und sprossgestaltung (anthokladien und infloreszenzen) Jena, G. Fischer, 1931 (2. erganzungsbd. zur Organographie der pflanzen)

Herter, W.
Florula uruguayensis II. Enumeratio plantarum vascularium... Montevideo, 1930(Estudios Botánicos en la región Uruguaya IV)

Kempski, K. E.
Die landwirtschaft im paraquayischen Chaco. Buenos Aires, Druck von Imprenta Mercur, 1931.
Die verschiedenen kulturen: p.35-119.

Kirschner, O.
Lebensgeschichte der blütenpflanzen mitteleuropas... Fortgeführt von W. Wangerin & C. Schröter. lfg. 40 (bd.1,2. abt. bog. 51-56) Amaryllidaceae (schluss), Iridaceae, von F. Buxbaum. Stuttgart, E. Ulmer, 1931.

Koster, P. M.
Koster's color guide. One hundred distinct colors as they occur in flowers, fruits and foliage N. Y., A. T. De La Mare Co., 1931.

Louis-Marie, père
Flore-manuel de la province de Québec. Montreal, 1931 (Contr. Inst. Agr. d'Oka no.23)

Mexico. Secretaria de agricultura y fomento.
Principales plagas y enfermedades de los cultivos en la República Mexicana incluyenda las más importantes de los Estados Unidos de Norteamérica Obra recopilada por la Oficina federal para la defensa agricola. Tacubaya, 1931.

Mottet, S.
Les oeillets. 6.éd. Paris, 1929.

New books. (cont.)

Rapaics, R. & Vajda, L.
Das mittelungarische Bergland. In Karsten, G. Vegetationsbilder 22. r., h.4. pl.19-24. 1931.

Seward, A. C.
Plant life through the ages. A geological and botanical retrospect. N. Y., Macmillan, 1931.

Souza de Camara, M. de
Un nouveau genre de champignon appartenent aux spaeropsidées, nectrioidacées... Lisbonne, 1931.
Cleistocystis rosarum, on cultivated rose.

Tschirch, A.
Handbuch der pharmakognosie. 2. erweiterte aufl. lfg.9. Leipzig, Tauchnitz, 1931.

Vandendries, R.
Nouvelles recherches expérimentales sur le comportement sexuel de Coprinus micaceus 2. ptie. Bruxelles, 1929 (Mém. Cl. Sci. Acad. Roy. Belg. Coll. 4°, 2. sér., v.9, f.7)

Wilcox, E. M.
Diseases of vegetable crops and ornamentals in the United States. [Chicago] 1928.
Typewritten ms., accompanied by miscellaneous notes.

Reprints from Journals not yet rec'd or not available.

Enomoto, N.
Mutation on the endosperm in rice plant. Reprinted from Japan Journ. Genetics 5:49-72. 1929.
Japanese with English summary.

Correction.

v.13, no.19, p.17. Ecol. Monogr. Joint. author's name is Shunk, I. V.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
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U. S. Department of Agriculture

Vol. 13, no. 24. Nov.23-Dec.5, 1931.

Amer. Bot. (Indianapolis,Ind.)

Baird, R. O.
A new species of cactus. Amer. Bot. 37: 150-151. O.1931. no.4.
Coryphantha minima.

Bloodweed. Amer. Bot. 37: 169. O. 1931. no.4.
Ambrosia trifida.

Clark, F. R.
Jack fruit latex. Amer. Bot. 37: 161-162. O. 1931. no.4.

Clark, F. R.
Regeneration of dandelion roots. Amer. Bot. 37: 164. O.1931. no.4.

Clute, W. N.
The meaning of plant names. XLVIII. Dogbanes and milkweeds. Amer. Bot. 37: 152-157. O.1931. no.4.

Clute, W. N.
[Phlox argillacea]. Amer. Bot. 37: 176-177. O. 1931. no.4.

Clute, W. N.
Swamp and dune. (cont.) Amer. Bot. v.37, suppl. 49-64. illus. O.1931. no.4.

Goodwin, L. E.
A new juniper. Amer. Bot. 37: 151-152. O. 1931. no.4.
Sabina multiova.

Maroon-colored carrot flowers. Amer. Bot. 37: 168-169. O. 1931. no.4.
New form may be called the variety rubra.

Amer. Bot. (cont.)

Northern range of silk tree. Amer. Bot. 37: 168. O. 1931. no.4.
Albizzia julibrissin.

Sprouting peony seeds. Amer. Bot. 37: 163. O. 1931. no.4.

Williams, E.
Another smoke-tree. Amer. Bot. 37: 166. O. 1931. no.4.
Parosela spinosa.

Amer. Fern Journ.

Bailey, S. W.
A second station for Asplenium montanum in Massachusetts. Amer. Fern Journ. 21: 140-143. illus. O./D. 1931. no.4.
Blue Hawk Mt., Cheshire.

Graves, E. W.
Botrychiums of the central states. Amer. Fern Journ. 21: 125-132. pl.11. O.]D. 1931. no.4.

Maxon, W. R.
New tropical American ferns - VIII. Amer. Fern Journ. 21: 136-139. O.]D.1931. no.4.

Palmer, T. C.
Tropical American Isoetes. Amer. Fern Journ. 21: 132-136. O.]D. 1931. no.4.
I. montana sp.nov.

Thompson, J. W.
1930 Washington fern notes. Amer. Fern Journ. 21: 117-124. pl.10. O.]D. 1931. no.4.

Amer. Midl. Nat. (Notre Dame, Ind.)

Hoskins, J. H.
Structure and classification of certain cycadofilicinean roots from the McLeansboro formation of Illinois. Amer. Midl. Nat. 12: 533-540. 8 pl. on 4. N.1931. no.12.

Angew. Bot. (Berlin)

Brandenburg, E.
Die herz- und trockenfäule der ruben als bornmangel- erscheinung. Angew. Bot. 13: 453 456. S./O. 1931. no.5.

Brandenburg, E.
Die sogen. ürbarmachungskrankheit bei futterrüben und erbsen. Angew. Bot. 13: 456-459. S./O. 1931. no.5.
Pythium sp.

Buisman, C.
Uebersicht über die ulmenarten in bezug auf den kampf gegen die ulmenkrankheit. Angew. Bot. 13: 459-464. S./O. 1931. no.5.

Geissler, A.
Vergleichende phänologische beobachtungen an verschiedenen getreidearten und getreidesorten in den jahren 1927 und 1928. Angew. Bot. 13: 377-452. illus. S./O. 1931. no.5.

Ann. Gembloux. (Brussels)

Verplancke, G.
Expériences sur la transmission des maladies de dégénérescence de la pomme de terre. II. Résultats des essais faits en 1931. Ann. Gembloux 37:345-349. N.1931. no.11.

Ann. R. Staz Sper. Agrum. e Frutt. Acireale.

Ajon, G.
Sulla maturazione del frutto di limone. Contributo all'esame chimico dell'endocarpo. Ann. R. Staz. Sper. Agrum. e Frutt. Acireale 10: 107-129. 1930.

Savastano, G.
Perfezionamento all'estero in fitopatologia ed agrumicoltura. Ann. R. Staz. Sper. Agrum. e Frutt. Acireale 10: 79-106. illus. (map) 1930.
Includes letter from L.M. Hutchins giving "summary of some of our activities during the two years that you spent in America": p.85-93.

Savastano, G. & Fawcett, H. S.
Ricerche sperimentali sul decorso patologico del mal secco nel limone. Ann. R. Staz. Sper. Agrum. e Frutt. Acireale 11; 1-37. illus., pl.i-vi. 1931.

Ann. R. Staz. Sper. Agrum. e Frutt. Acireale. (cont.)

Savastano, G.
Tra gli agrumeti d'America. Aspetti colturali ed organizzativi. Ann. R. Staz. Sper. Agrum. e Frutt. Acireale 10: 132-265. pl.ix-xx. 1930.

Savastano, L.
Studii Virgiliani. I. Della II. Georgica: commento arboreo. II. Escursioni. Ann. R. Staz. Sper. Agrum. e Frutt. Acireale 11: 41-124. pl.vii-viii. 1931.

Ann. Appl. Biol. (London)

Brown, R.
The absorption of water by seeds of Lolium perenne (L.) and certain other Gramineae. Ann. Appl. Biol. 18:559-583. illus. N.1931. no.4.

Buckhurst, A.S. & Bryer, J.C.F.
The problem of "potato sickness". A report upon certain experiments. Ann. Appl. Biol. 18: 584-601. pl.xlii-xliii. N.1931. no.4.
Does not occur in absence of nematode (H.schachtii) tho plants may grow normally when attacked by the nematode. Corticium solani not a cause of the disease, no other parasite, other than nematode, discovered as cause.

Burr, S.
Sprain or internal rust spot of potato (B. rubefaciens). Ann. Appl. Biol. 18: 521-523. pl. xxxviii. N.1931. no.4.

Samuel, G.
Some experiments on inoculating methods with plant viruses, and on local lesions. Ann. Appl. Biol. 18: 494-507. pl.xxxiv-xxxvi. N.1931. no.4.

Sheffield, F.M.L.
The formation of intracellular inclusions in solanaceous hosts infected with aucuba mosaic of tobacco. Ann. Appl. Biol. 18: 471-493. pl. xxv-xxviii. N.1931. no.4.

Ann. Appl. Biol. (cont.)

Stoughton, R. H.
The influence of environmental conditions on the development of the angular leaf-spot disease of cotton. III. The influence of air temperature on infection. Ann. Appl. Biol. 18: 524-534. illus., pl. xxxix. N.1931. no.4.

Turner, D.M. & Millard, W. A.
Leaf-spot of oats, Helminthosporium avenae (Bri. and Cav.) Eid. Ann. Appl. Biol. 18: 535-558. illus., pl.xl-xli. N.1931. no.4.

Whitehead, T. & Currie, J. F.
The susceptibility of certain potato varieties to leaf-roll and mosaic infection. Ann. Appl. Biol. 18: 508-520. pl.xxxvii. N.1931. no.4.

Ann. Rep. Agr. & Hort. Res. Stat. Univ. Bristol.

Ogilvie, L.
A fruit rot of apples and pears due to a variety of Phytophthora syringae. Ann. Rep. Agr. & Hort. Res. Stat. Univ. Bristol. 1930: 147-150. 2 pl. [1931]

Pilling, M. & Pearsall, W. H.
Preliminary observations on the nitrogenous materials in apples during storage. Ann. Rep. Agr. & Hort. Res. Stat. Univ. Bristol 1930: 62-70. [1931]

Spinks, G. T.
Apple root stock investigations. Ann. Rep. Agr. & Hort. Res. Stat. Univ. Bristol 1930: 19-26. [1931]

Swarbrick, T.
A preliminary report of the raspberry variety trials at Long Ashton. Ann. Rep. Agr. & Hort. Res. Stat. Univ. Bristol 1930: 27-45. [1931]

Wallace, T., Charley, V.L.S. & Jones, J. O.
Some effects of bark ringing on the composition of fruit trees. Ann. Rep. Agr. & Hort. Res. Stat. Univ. Bristol 1930: 52-61. [1931]
Experiments with apple (Bramley's seedling)

Arbejd. Danske Arkt. Stat. Disko.
Porsild, M. P.
Stray contributions to the flora of Greenland I-V Arbejd. Danske Arkt. Stat. Disko no.13. 44 p. illus. 1930(Rec'd N.1931)
Saertryk af Meddelelser om Grønland LXXVII.

Beih. Bot.Centralbl. Abt.II(Dresden)
Czurda, V.
Ein neuer, eigenartiger kopulationsblauf bei einer Mougeotia (M. oedogoniodes Czurda). Beih. Bot. Centralbl. Abt.II, 48: 286-290. illus. O. 1931. no.2.

Czurda V.
Zur morphologie und systematik der zygnemalen. Beih. Bot. Centralbl. Abt.II, 48: 238-285. illus. O. 1931. no.2.

Handel-Mazzetti, H.
Plantae Mellianae sinenses. I- Beih. Bot. Centralbl. Abt.II. 48: 291-316. illus. O. 1931. no.2.

Pascher, A.
Systematische übersicht über die mit flagellaten in zusammenhang stehenden algenreihen und versuch einer einreihung dieser algenstämme in die stämme des pflanzenreiches. Beih. Bot. Centralbl. Abt.II,48: 317-332. O.1931. no.2.

Poddubnaja-Arnoldi, W.
Ein versuch der anwendung der embryologischen methode bei der lösung einiger systematischer fragen. I. Vergleichende embryologisch-sztologische untersuchungen über die gruppe Cynareae, fam. Compositae. Beih. Bot. Centralbl. Abt.II, 48: 141-237. illus. O.1931. no.2.

Ber. Deut. Bot. Ges. (Berlin)
Benecke, W. & Arnold, A.
Zur biologie der strand und dünenflora. II. Der salzgehalt der natürlichen standorte von Agriopyrum junceum P.B. and Ammophila arenaria Roth auf dem sandstrande von Norderney. Ber. Deut. Bot. Ges. 49: 363-381. illus. O.29, 1931. no.7.

Möbius, M.
Die bestäubung von Hyoscyamus aureus. Ber. Deut. Bot. Ges. 49: 359-363. illus. O.29, 1931. no.7.

Ber. Deut. Bot. Ges. (cont.)
Shadowsky, A. E.
Einige angaben über die embryogenie von Pistia stratiotes L. Ber. Deut. Bot. Ges. 49: 350-356. pl.xi. O.29, 1931. no.7.

Ziegenspeck, H.
Ueber die zwischenzustände bei der bildung verholzter membranen. Ber. Deut. Bot. Ges. 49: 381-386. O.29, 1931. no.7.

Biol. Zentralbl. (Leipzig)
Hämmerling, J.
Entwicklung und formbildungsvermögen von Acetabularia mediterranea. I. Die normale entwicklung. Biol. Zentralbl. 51: 633-647. illus. 1931. no.11.

Hedemann, E.
Ueber experimentelle erzeugung von adventivembryonen bei Mirabilis uniflora und Mirabilis froebelii. Biol. Zentralbl. 51: 647-652. illus. 1931. no.11.

Bol. Agr. Min. Industr. Colombia.
Barriga Villalba, A. M.
Analisis quimico del platano. Bol. Agr. Min. Industr. Colombia 4: 187-209. illus., 6 pl. (fold.) My./Je. 1931. no.5/6.

Bol. Compan. Administr. Guano (Lima,Peru)
Armstrong, G. M. & Albert, W.B.
Estudio de la planta de algodón con relación especial a su contenido en nitrógeno. Bol. Compan. Administr. Guano 7: 359-378. Ag.1931. no.8.

Bol. Union Panamer. (Washington,D.C.)
Ciferri, R.
Las enfermedades del cacao en la zona del Caribe. Bol. Union Panamer. 65: 1279-1293. illus. D.1931. no.12.

Boll. Tecn. R. Ist. Sper. Tabacchi Scafati.
Benincasa, M.
Nuove varieta di tabacco. Boll. Tecn. R. Ist. Sper. Tabacchi Scafati 28: 115-118. 4 pl. Jl./S. 1931. no.3.
Maryland "Benincasa" n.l. Burley "Giuseppina".

Bot. Jahrb. Engl. (Leipzig)

Handel-Mazzetti, H.
Die pflanzengeographische gliederung und stellung Chinas. Bot. Jahrb. Engl. 64: 309-323. O.26, 1931. no.4.

Schoennagel, E.
Chromosomenzahl und phylogenie der saxifragaceen (cont.) Bot. Jahrb. Engl. 64: 289-308. O.26, 1931. no.4.

Schürhoff, P. N.
Die haploidgeneration der balsaminaceen und ihre verwertung fur die systematik. Bot. Jahrb. Engl. 64: 324-356. pl. xiv-xviii. O.26,1931. no.4.

Stefanoff, B. & Jordanoff, D.
Materialien zur kenntnis der moor-vegetation in den West-Rhodopen (Dospad-gebirge). Bot.Jahrb. Engl. 64: 357-387. illus. O.26, 1931. no.4.

Stefanoff, B. & Jordanoff, D.
Topographische flora von Bulgarien. Bot. Jahrb. Engl. 64: 388-400. O.26, 1931. no.4.

Bot. Mag. Tokyo.

Akiyama, S.
Diagnoses specierum novarum caricum japonicarum. Bot. Mag. Tokyo 45: 472-474. O.20, 1931. no.538.

Hayata, B.
On the dynamic system of plants founded on the theory of participation. Bot. Mag. Tokyo 45: 490-493. O.20, 1931. no.538.
In Japanese.

Honda, M.
Nuntia ad floram japonicae. XIII-XIV. Bot. Mag. Tokyo 45: 421-423, 469-470. S.,O. 1931. no.537,538.

Katayama, Y.
Variation in the number of bivalent chromosomes in the F_1 hybrids between Triticum durum and Aegilops ventricosa. Bot. Mag. Tokyo 45: 424-445. illus. S.20, 1931. no.537.
In Japanese with English resumé: p.443-445.

Bot. Mag. Tokyo (cont.)
Kondo, T.
Zur kenntnis der N-gehaltes des mykorrhiza-knöllchens von Podocarpus macrophylla D. Don. Bot. Mag. Tokyo 45: 495-501. O.20, 1931. no.538.

Satake, Y.
Systematic and anatomical studies of Japanese Juncaceae. II. Bot. Mag. Tokyo 45: 446-453 illus. S.1931. no.537.

Takenaka, Y.
Further reports of cytological and genetic investigations of Rumex acetosa L. I. New chromosomes and chromosome-fragments. Bot. Mag. Tokyo 45: 475-489. illus. O.20,1931. no.538.

Brittonia (Lancaster,Pa.)
Copeland, E. B.
Philippine ferns collected by R.S. Williams. Brittonia 1:67-70. 3 pl. O.1931. no.2.

Copeland, E. B.
Sarawak ferns collected by J. and M.S. Clemens. Brittonia 1: 71-78. illus.,3 pl. O.1931. no.2.

Rydberg, P. A.
Taxonomic notes on the flora of the prairies and plains of central North America. Brittonia 1:79-104. O.1931. no.2.

Smith, J. J.
Additions to our knowledge of the orchid flora of Borneo. Brittonia 1: 105-111. O.1931. no.2.

Bull. Mens. l'Agence Econ. l'Afrique Occid. Franc. (Paris)
Denis, M. G.
Les céréales en Afrique Occidentale Francaise. Bull. Mens. l'Agence Econ. l'Afrique Occid. Franc. 12: 295-305. illus., map. O.1931. no.130.
Varieties given under vernacular names - rice, millet, maize.

Bull. Misc. Inform. Kew. (London)
Bullock, A. A.
The genera Tinnea and Renschia. Bull. Misc. Inform. Kew 1931: 455-457. no.9.
R. mirabilis sp.nov.

Bull. Misc. Inform. Kew. (cont.)

Craib. W. G.
Contributions to the flora of Siam. Additamentum XXXII. Bull. Misc. Inform. Kew. 1931: 441-448. no.9.

Francis, W. D.
Notes on some Australian Monimiaceae. Bull. Misc. Inform. Kew. 1931: 457-458. no.9.

Kew. Royal gardens.
Decades kewenses. Plantarum novarum in herbario Horti regii conservatarum. CXXVII. Bull. Misc. Inform.Kew. 1931: 448-453. no.9.

Mucuna gigantea (Willd.) DC. Bull. Misc. Inform. Kew. 1931: 464. no.9.

Oscar Juel. Bull. Misc. Inform. Kew 1931: 459. no.9.
Notice of death.

Thomas Ford Chipp. Bull. Misc. Inform. Kew. 1931: 438-440. port. no.9.

Turrill, W. B.
On the flora of the Nearer East. X. A contribution to the flora of South Macedonia. Bull. Misc. Inform.Kew 1931: 453-455. no.9.

Bull. Torr. Club.

Gleason, H. A. & others.
Botanical results of the Tyler-Duida expedition. Bull. Torr. Club 58: 277-344. illus., pl.17-44, fold.map. My.1931.(Rec'd N.) no.5.

Cactus & Succ. Journ. (Los Angeles)

Baxter, E. M.
California cacti. Sclerocactus polyancistrus-pineapple cactus. Cactus & Succ. Journ. 3: 85-86. illus. N.1931. no.5.

Brown, N. C.
Fishy, or mesembs again. Cactus & Succ. Journ. 3: 79-80. illus. N.1931. no.5.

Cactus & Succ. Jour. (cont.)

Hester, J. P.
New species? Cactus & Succ. Journ. 3: 84. illus. N.1931. no.5.
Coryphantha.

West, J.
Adromischus maculatus (Salm) Lem. Cactus & Succ. Journ. 3: 90-91. illus. N.1931. no.5.

White, A. & Sloane, B.L.
The Stapelieae. 3. Caralluma. Cactus & Succ. Journ. 3: 81-83. illus. N.1931. no.5.

Wright, J. S.
Rare Utahia sileri Engelmann. Cactus & Succ. Journ. 3: 88-89. illus. N.1931. no.5.

Canad. Journ. Res. (Ottawa)

Aamodt, O. S.
Varietal trials, physiologic specialization, and breeding spring wheats for resistance to Tilletia tritici and T.levis. Canad. Journ. Res. 5: 501-528. N.1931. no.5.

Chem. Umschau (Stuttgart)

Ivanow, S.L. & Resnikowa, S.B.
Zur erkenntnis der pflanzenfette der U.d.S.S.R. VIII. Fette der "sumach's-rhus-arten "sowjetisches pflanzenwachs".) Chem. Umschau 38:301-305. N.11, 1931. no.22.

Collegium. (Ober-Ramstadt)

Zellner, J.
Ueber nichtgerbstoffe von rinden. Collegium. 1931: 605-609. 1931. no.738.

Compt. Rend. Acad. Sci. Paris.

Bridel, M. & Bourdouil, C.
Sur l'evolution des glucides au cours de la formation de la graine de deux variétés de pois. Compt. Rend. Acad. Sci. Paris 193: 949-951. N.16, 1931. no.20.

Compt. Rend. Acad.Sci. Paris. (cont.)
Guilliermond, A.
Sur l'existence fréquente de vacuoles specialisées dans les cellules à anthocyane. Compt. Rend. Acad. Sci. Paris 193:952-954. illus. N.16, 1931. no.20.

Kopp, A.,& Emmerez de Charmoy, D. d'
Nouvelles constations sur les maladies à virus de la canne à sucre et du maïs. Compt. Rend. Acad. Sci. Paris 193: 876-878. N.9, 1931. no.19.
Streak disease, also found on Coix lachrymajobii.

Contr. Biol. Lab. Sci. Soc. China Bot.Ser.
Wang, Y. C.
Observations on the vegetation of Hsuan-Wu Lake, Nanking. Contr. Biol. Lab. Sci. Soc. China Bot.Ser. 6: 39-58. illus.(map), pl. Ap.1931. no.6.

Contr. Gray Herb. (Boston)
Bacigalupi, R.
A monograph of the genus Perezia, section Acourtia, with a provisional key to the section Euperezia. Contr. Gray Herb. 97. 81 p. vii pl. 1931.

Cyprus Agr. Journ. (micosia, Cyprus)
The smut disease of maize. Cyprus Agr. Journ. 26: 81-82. illus. S.1931. no.3.

The white root rot of fruit trees. Cyprus Agr. Journ. 26: 77-80. illus. S.1931. no.3.

K. Danske Vidensk. Selsk. Skrift. Naturv. Math. Afd.
The distribution within Denmark of the higher plants.
Results of the topographical investigations. I-II.
K. Danske Vidensk. Selsk. Skrift. Naturv. Math. Afd. IX,3: 1-15, 19-96. pl.i-x (maps) 1931. no.1,2.
I. A brief historical survey of the investigation. By C.H. Ostenfeld. II. The distribution of the Papilionaceae within Denmark. By Knud Jessen.

Desert (Pasadena)
Blossfeld, R.
Kalanchoe globulifera var. coccinea. A new and noteworthy plant. Desert (Pasadena) 3: 92. illus. D.1931. no.8.

Deut.Landw. Presse (Berlin)
Heinisch, O.
Hofrat Prof. Dr.h.c. Erich von Tschermak-Gensenegg o.ö. Prof. an der Wiener hochschule für bodenkultur 60 jahre alt. Deut. Landw. Presse 58: 631. port. N.14, 1931. no.46.

Fortschr. Landw. (Vienna)
Kosmat, H.
Saugkraftmessungen an kartoffelsorten 1930/31. Fortschr. Landw. 6: 712-717. N.15, 1931. no.22.

Gard. Chron. (London)
Coutts, J.
Gloxinia maculata. Gard. Chron. III,90: 395. N.21, 1931. no.2343.

Darlington, C. D.
The bearing of chromosome studies on plant breeding. 10 Tetraploidy after hybridisation. Gard. Chron. III,90: 379-400. illus. N.21,1931. no.2343.

Elliott, C
Two shrubby verbenas. Gard. Chron. III,90; 378. illus. N.14,1931. no.2342.
Verbena tridens, V.illapelina.

Enzian. Gard. Chron. III,90: 389. N.21, 1931. no.2343.
Gentiana lutea.

Grove, A.
The elm disease. Gard.Chron. III,90:396. N.21, 1931. no.2343.

Grove, A.
Lilium heldreichii. Gard. Chron. III,90: 380-381. illus. N.4?1931. no.2342.

- Heterocentron roseum. Gard. Chron. III,90: 395. illus. N.21, 1931. no.2343.

Gard. Chron. Amer.
Yerex, C.
A beautiful new lily. A radiant red lily of mysterious origin has been discovered recently in an old Oregon garden Gard. Chron. Amer. 35(12):437-438. D.1931.
Lilium pardalinum giganteum.

Gartenfl. (Berlin)
Herre, H.
Cotyledon herrei Barker, ein neues, sehr interessantes cotyledon. Gartenfl. 80: 363. illus. N. 1931.

Gartenw. (Berlin)
Pape, H.
Mosaikkrankheit bei rhododendron. Gartenw. 35: 621. illus. N.6,1931. no.45.

Godish. Sofiisk. Univ. V. Agron. Fak. (Ann. Univ. Sofia V.Fac. Agron.)
Kostov, D.
Promĕni v proteinitĕ i obrazuvane na tumori- chrez nĕkoi agenti (Changes in the proteins and induction of tumor formation by certain agents (A contribution to the aetiology of tumors). Godishn. Sofiisk. Univ. V. Agron. Fak. (Ann. Univ. Sofia V. Fac. Agron.) 9: 269-300. illus. 1931.
Bulgarian with English summary.

Nedelchev, N.
Izpitvane kŭlniâemost'ta na tichinkoviiâ prashets et raznitĕ bŭlgarski sortove lozi (Faculté germinative du pollen des variétés de vignes bulgares). Godishn. Sofiisk. Univ. V. Agron. Fak. (Ann. Univ. Sofia V.Fac.Agron.) 9: 447-454. illus. 1931.
Bulgarian with French summary.

Stefanov, B.
Izuchvaniiâ bŭrkhu kolebanieto na vodnogo sŭdurzhanie b listata i mladite klonki na nĕkoi dŭrvesni vidove (Étude sur la variabilité de la teneur en eau des feuilles et des jeunes pousses de quelques espèces d'arbres forestiers). Godishn. Sofiisk. Univ. V. Agron. Fak. (Ann. Univ. Sofia V. Fac. Agron.) 9: 567-617. 1931.
Bulgarian with German summary.

Stoichkov, P.
Burkhu razvitieto i alternativnoto obrazuvane na plodni pupki pri nĕkoi varieteti sliva, krusha i îabulka (Ueber die entwicklung und alternative bildung von fruchtknospen bei einigen pflaumen- birnen- und apfelvarietäten). Godishn. Sofiisk. Univ. V. Agron. Fak. (Ann. Univ. Sofia V. Fac. Agron.) 9: 431-446. 1931.
Bulgarian with German summary.

Hilgardia (Berkeley, Cal.)
Halma, F. F.
The propagation of citrus by cuttings.
Hilgardia 6: 131-157. illus. O.1931. no.5.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)
Winterstein, A. & Egli, R.
Untersuchungen in der saponinreihe. VII. Zur Kenntnis der sia- und sumaresinolsäure. Hoppe-Seyl. Zeitschr. Phys. Chem. 202: 207-216. N.2, 1931. no.4/6.

Winterstein, A. & Stein, G.
Untersuchungen in der saponinreihe. VIII-IX. Hoppe-Seyl. Zeitschr. Phys. Chem. 202: 217-222, 222-231. N.2,1931. no.4/6.
VIII. Ueber ursolsäure. IX. Ueber oleansäure.

Indische Cult. (Soerbaja)
Fischer, R.
Het immuniteits-vraagstuk bij de bescherming van planten. Indische Cult. 16: 669-675. illus. N.1,1931. no.21.

Industr. & Engin. Chem. (Easton, Pa.)
Weatherby, L.S. & Sorber, D.G.
Chemical composition of avocado seed. Industr. & Engin. Chem. 23: 1421-1423. illus. D.1931. no.12.

Intern. Bull. Plant Prot.
Jai Chand Luthra, R.S.L.
India: Some fungal diseases of farm crops recently discovered in the Punjab. Intern. Bull. Plant Prot. 5: 188. O.1931. no.10.

Stevens, N. E.
United States of America: Notes on nematodes injurious to plants. Intern. Bull. Plant Prot. 5: 184-185. O.1931. no.10.

Stevens, N. E.
United States of America: An outbreak of Peronospora hyoscyami on tobacco. Intern. Bull. Plant Port. 5: 183-184. O.1931. no.10.

Journ. Agr. Prat. (Paris)

Winberg, O.

La pomme de terre et sa dégénérescence. Journ. Agr. Prat. n.s., 56 (2): 396-398. N.14, 1931. no.46.

Journ. Amer. Phar. Assoc. (Easton, Pa.)

Klan, Z. F.

Influence of period of vegetation and development of plant on the alkaloidal content of Hyoscyamus niger L. Journ. Amer. Pharm. Assoc. 20: 1163-1175. N.1931. no.11.

Stuhr, E. T.

Exploring economic plants. Journ. Amer. Pharm. Assoc. 20: 1158-1163. illus. N.1931. no.11.

Pacific coast plants.

Journ. Biol. Chem. (Baltimore)

Anderson, E. & Kinsman, S.

Studies on the hemicelluloses. II.The composition of the hemicellulose from cottonseed hulls. Journ. Biol. Chem. 94: 39-47. N. 1931. no.1.

Nelson, W. L. & Crotcher, L. H.

The carbohydrate acid sulfate of Macrocystis pyrifera. Journ. Biol. Chem. 94: 147-154. N.1931. no.1.

Journ. Bombay Nat. Hist. Soc.

Blatter, E,

Another new Ceropegia from the western Ghats. Journ. Bombay Nat. Hist. Soc. 35: 409. 1 pl. O.15, 1931. no.2.

Ceropegia hispida.

[illegible]

Blatter, E. & McCann, C.

Revision of the flora of the Bombay Presidency. XVI. Orchidaceae. Journ. Bombay Nat. Hist. Soc. 35: 254-275. pl.i-viii. O.15, 1931. no.2.

Blatter, E. & Millard, W. S.

Some beautiful Indian trees.VII. Journ. Bombay Nat. Hist. Soc. 35: 289-296. illus., pl.13-15. (2 col.) O.15,1931. no.2.

Journ. Bombay Nat. Hist. Soc. (cont.)

McCann, C.
Occurrence of Isoetes in the Bombay Presidency. Journ. Bombay Nat. Hist. Soc. 35: 471. O.15, 1931. no.2.
Probably a new species, to be described later.

McCann, C.
On the fertilization of the flowers of the sausage tree (Kigelia pinnata, DC.) by bats. Journ. Bombay Nat. Hist. Soc. 35: 467-471. illus. O.15, 1931. no.2.

Journ. Dept. Agr. Victoria. (Melbourne)

Adam, D. B.
Blue mould in tobacco. Hints on its control. Journ. Dept. Agr. Victoria 29: 469-471, 476. illus. O.1931. no 10.

Morgan, A.
Experiments in the control of hoary cress. II. Pot experiments. Journ. Dept. Agr. Victoria. 29: 504-515. illus. O.1931. no.10.

Journ. Dept. Agr. West. Austral. (Perth)

Pittman, H. A.
Seed and seed-bed disinfection. Fundamental principles of plant disease control. Journ. Dept. Agr. West. Austral. II,8: 394-409. illus. S.1931. no.3.

Journ. N. Y. Bot. Gard.

Small, J. K.
Celestial lilies. Journ. N.Y. Bot. Gard. 32: 260-269. illus. N.1931. no.383.
Nemastylis floridana sp.nov.

Journ. Pharm. Soc. Japan.

Kaku, T., Cho, Ch., & Orita, T.
Ueber die bestandteile des ätherischen Öls in Asarum sieboldi var. seoulensis, Nakai. (II. Mitteilung.) Journ.Pharm. Soc. Japan 51: 112-116. O.1931. no.10.

Kariyone, T.
On the content of boric acid in agar-agar and algae. Journ. Pharm. Soc. Japan. 51: 110-111. O.1931. no.10.

Journ. Washington Acad. Sci.

Morton, C. V.

Notes on yagé a drug plant of southeastern Colombia. Journ. Washington Acad. Sci. 21: 485-488. D.4, 1931. no.20.

Banisteriopsis inebrians, n.sp.

Landw. Jahrb. (Berlin)

Schünemann, K.

Vergleichende untersuchungen nach der saugkraft- und der anwelkmethode an hafersorten. Landw. Jahrb. 74: 457-519. illus. 1931. no.3.

Meded. Rijks. Herb. Leiden.

Goddijn, W. A.

's Rijks herbarium (l'herbier de l'état) 1830-1930. Meded. Rijks Herb. Leiden no. 62a-b. 6, 53 p. 2 pl., 3 ports. 1931.

62a is an abbreviated account in French.

Henrard, J. T.

A contribution to the knowledge of the Indian Maydeae. Meded. Rijks.Herb. Leiden no.67. 17 p. iv pl. 1931.

Trilobachne gen.n., T. cookei.

Lütjeharms, W.J.

Observations historiques et systématiques sur les phalloïdées dans les Pays-Bas, à propos d'une trouvaille récente du Lysurus australiensis. Meded. Rijks Herb. Leiden no.68. 15p. illus., 2 pl. 1931.

Tanaka, T.

Notes on the Dutch Indian species of Rutacea-aurantieae (Revisio aurantiacearum V) Meded. Rijks Herb. Leiden 69. 13 p. 1931.

Mitt. Naturf. Ges. Bern.

Baumgartner, R.

A propos de quelques Laboulbéniales (champignons sur insectes). Mitt. Naturf. Ges. Bern 1930: lxii-lxv. 1931.

Maurizio, A.

Gymnoascus setosus Eidam, ein saprophytischer pilz aus beinenwaben. Mitt. Naturf. Ges. Bern 1930: xliv-xlvi. 1931.

Autorreferat.

Monatsschr. Deut. Kakteen-Ges. (Berlin)

Bödeker, F.

Coryphantha longicornis Böd. sp.n. Monatsschr. Deut. Kakteen-Ges. 3: 249-251. illus. N.1931. no.11.

Roeder, W.von

Neue methoden zur bekämpfung bakterieller und pilzlicher schädigungen. II. Licht und wärme. Monatsschr. Deut. Kakteen-Ges. 3: 255-257. N. 1931. no.11.

Tischer, A.

Schöne mesembrianthemen und ihre kultur. VII. Monatsschr. Deut.Kakteen-Ges. 3: 268-270. illus. N.1931. no.11.

Lithops fulleri, Stomatium mustellinum.

Weingart, W.

Cereus schmollii spec.nov. Monatsschr. Deut. Kakteen-Ges. 3: 251-253. illus. N.1931. no.11.

Weingart, W.

Cereus spinulosus P.D.C. Monatsschr. Deut. Kakteen.-Ges. 3: 254-255. N.1931. no.11.

Selenicerus pseudo-spinulosus (Cereus)

Werdermann, E.

Mammillaria herrerae Werd. und ihre varietät albiflora Werd. Monatsschr. Duet.Kakteen-Ges. 3: 247-249. illus. N.1931. no.11.

Nat. Hist. (N.Y.)

Medsger, O. P.

Plant life in winter. A variety of hardy and colorful plants enliven the winter woods after the warmer seasons of the year have departed. Nat. Hist. 31: 627-633. illus. N./D.1931. no.6.

Nature (London)

Butcher, R. W.

Faraday as a botanist. Nature 128: 820-821. N.14, 1931. no.3237.

Collection of plants made by Faraday, from various localities in England, now in possession of the Royal Institution.

Rama Rao, L.

Occurrence of Lithothamnion in the South Indian Cretaceous. Nature 128: 873. N.21, 1931. no.3238.

Naturforsch. (Berlin)

Baare, T.

Pflanzenverbreitung und bäderlage, erörtert am beispiel des harzen. Naturforsch. 8: 255-256. N.1931. no.8.

Goez, W.

Warum fallen die blatter? Naturforsch. 8: 252-255. N.1931. no.8.

New Zeal. Journ. Agr. (Wellington)

Hadfield, J. W.

Types of rape used in New Zealand. New Zeal. Journ. Agr. 43: 255-261. illus. O.20,1931. no.4.

Sutherland, R.

Factors influencing the keeping-qualities of pears in cool storage. New Zeal. Journ. Agr. 43: 273-276. O.20, 1931. no.4.

Woodfin, J. C.

Control of oidium in vineries. New Zeal. Journ. Agr. 43: 287. O.20, 1931. no.4.

Nuovo Giorn. Bot. Ital. (Firenze)

Cappelletti, C.

Sulla presenza di miceli nei tegumenti seminali di alcune Liliaceae e particolarmente nel genere Tulipa. Nuovo Giorn. Bot. Ital. n.s., 38: 479-508. illus. 1931. no.3.

Mycogone tulipae n.sp.

Chiarugi, A.

Palmoxylon tyrrhenicum Chiar. n.sp., e Palmoxylon lacunosum (Ung.) Felix nuovo elemento paleoxilologico sahariano della Sardegna. Nuovo Giorn. Bot. Ital. n.s.,38: 475-478. pl.ix. 1931. no.3.

Chiovenda, E.

Il papiro in Italia. Un interessante problema di biologia, sistematica e fitogeografia. Nuovo Giorn. Bot. Ital. n.s.,38: 545-550. 1931. no.3.

Colla, S.

Sulla fioritura alla sola luce di wood. Nuovo Giorn. Bot. Ital. n.s.,38: 509-514. illus. 1931. no.3.

Nota preventiva.

Nuovo Giorn. Bot. Ital. (cont.)

Colla, S.
Sulla fotosintesi alla sola luce di wood. Nuovo Giorn. Bot.Ital. n.s., 38: 463-474. 1931. no.3.

Cufodontis, G.
Sopra tre piante rare o nuove della Venezia Giulia. Nuovo Giorn. Bot. Ital. n.s.,38: 453-544. 1931. no.3.
Scheuchzeria palustris, Ruscus hypoglossum, Staehelina dubia.

Francini, E.
Sopra un legno fossile Chinese. Nuovo Giorn. Bot. Ital. n.s.,38: 442-448. pl.viii. 1931. no.3.

Messeri, A.
Ricerche embriologiche e cariologiche sopra i generi "Allium" e "Nothoscordon" Nuovo Giorn. Bot. Ital. n.s., 38: 409-441. illus. 1931. no.3

Montemartini, L.
Una nuovo osservazione sull'anatomia delle vie acquifere delle piante. Nuovo Giorn. Bot. Ital. n.s.,38: 541-542. 1931. no.3.

Ponzo, A.
Sulla ligula delle monocotiledoni. Nuovo Giorn. Bot. Ital. n.s.,38: 515-533. illus. 1931. no.3.

Scaramella, P.
Sugli enzimi e sulle tossine prodotte dal Rhizopus nigricans Ehr. in rapporto alla loro azione sulla germinazione del grano. Nuovo Giorn. Bot. Ital. n.s.,38: 371-408. pl.vi-vii. 1931. no.3.

Scaramella, P.
Sullo svernamento delle Melampsorae dei salici in alta montagna. Nuovo Giorn. Bot. Ital. n.s., 38: 538-540. 1931. no.3.

Verona, O.
Nuovo micromiceti su Pandanacee. Nuovo Giorn. Bot. Ital. n.s.,38: 534-537. illus. 1931. no.3.
Phomatospora pandani, Phoma pandani, n.spp.

Philipp. Journ. Sci. (Manila)

Baker, C. F.

Second supplement to the list of the lower fungi of the Philippine Islands. A bibliographic list chronologically arranged, and with localities and hosts. Edited by F.L. Stevens. Philipp. Journ. Sci. 46: 479-536. N.1931. no.3.

Prace Wydz. Chor. Rosl. Państw. Inst. Nauk Gosp. Wiejsk. Bydgoszczy.

Garbowski, L. & Leszczenko, P.

Rozpowszechnienie raka ziemniacznego i postępy badań nad odpornością odmian ziemnaików przeciw Synchytrium endobioticum (Schilb) Perc. (L'extension de la gale verruqueuse des pommes de terre et les progrès des investigations concernant la resistance des pommes de terre contre Synchytrium endobioticum (Schilb.) Perc.) Prace Wydz. Chor. Rośl. Państw. Inst. Nauk. Gosp. Wiejsk. Bydgoszczy. 10: 3-42. 2 pl. 1931.

Polish with French summary.

Leszczenko, P.

Zwalczanie chwastów środkami chemicznemi (La lutte contre les mauvaises herbes par les moyens chimiques). Prace Wydz. Chor. Rośl. Państw. Inst. Nauk. Gosp. Wiejsk. Bydgoszczy 10: 43-52. 1931.

Polish with French summary.

Prilozh. Trudy Prikl. Bot. Gen. i Selek. (Suppl. Bull. Appl. Bot., Gen. & Plant-breed.)(Leningrad)

Pashkevich, V. V.

Besplodie i stepen urozhainosti v plodovodstve v zavisimosti ot sorta opyliaiushchego (Sterility and degree of productivity in fruitgrowing, in dependence on the pollinating variety). Prilozh. 49 Trudy Prikl. Bot. Gen. i Selek.(Suppl 49 Bull. Appl. Bot., Gen. & Plant-breed.) 201 p. illus. 1930.

Russian with English summary.

Proc. Idaho State Hort. Assoc.

Hungerford, C. W.

Diseases of truck crops in Idaho. Proc. Idaho State Hort. Assoc. 36: 145-148. 1931.

Overholser, E.L. & Overley, F.L.

Winter injury of fruit tree roots. Proc. Idaho State Hort. Assoc. 36: 137-140. 1931.

Rep. Assoc. Hawaiian Sugar Techn.

Bond, J. D.
Wood control. Rep. Assoc. Hawaiian Sugar Techn. 10: 35-43. 1931.

Martin, J. P.
Cane diseases control through adjustment of plantation practices. Rep. Assoc. Hawaiian Sugar Techn. 10: 3-11. 1931.

Weller, D. M.
Root pressure of the sugar cane plant in relation to soil moisture. Rep. Assoc. Hawaiian Sugar Techn. 10: 85-91. illus. 1931.

Rev. Bot. Appl. (Paris)

Chevalier, A.
Sur une ustilaginée parasite du riz en Afrique occidentale. Rev. Bot. Appl. 1: 275. Ap.1931. no.116.
Ustilaginoidea virens.

Riv. Ital. Essen. e Projumi (Milano)

Ajon, L.
Brevi osservazioni sulle orchidee spontanee siciliane. Riv. Ital. Essen. e Profumi 13: 337-339. illus. N.15, 1931. no.11.

Schweiz. Obst- u. Gartenb. Zeit. (Münsingen)

Miethe, E.
Fleischfressenden pflanzen und ihre pflege. Schweiz. Obst.-u. Gartenb. Zeit. 1931: 187-188, 203, 217-218, 251-252, 289-290, 329, 343-344. illus. no.12-14, 16, 18, 21, 22.

Science (Lancaster, Pa.)

Hopkins, E. F.
Manganese and the growth of Lemna minor. Science 74: 551-552. N.27, 1931. no.1926.

Thomson, R. B.
Is the embryo sac a megaspore? Science 74: 544-545. N.27, 1931. no.1926.

Sci. Rep. Tohoku Imp. Univ., 4 ser. (Biol.) (Sendai)

Okada, Y
Study of Euryale ferox Salisb. VII. Change of catalase and germination percent during after-ripening of the seeds. Sci. Rep. Tohoku Imp. Univ. 4.ser. (Biol.) 6: 429-436. S.1931.

Scient. Month. (Lancaster, Pa.)
Wherry, E. T.
Save our wild flowers. Scient. Month. 33: 535-538. D.1931. no.6.

Trans. & Proc. New Zeal. Inst. (Wellington, N.Z.)
Cummingham, G. H.
Sclerodermaceae of New Zealand. Trans. & Proc. New Zeal. Inst. 62: 115-119. pl.13-15. S.30, 1931. no.2.

Evans, W. P.
A fossil Nothofagus (Nothofagoxylon?) from the central Otago coal-measures. Trans. & Proc. New Zeal. Inst. 62: 98. pl.11. S.30, 1931. no.2.

Laing, R. M. & Gourlay, H. W.
The New Zealand species of Gigartina. II. Foliose forms. Trans. & Proc. New Zeal. Inst. 62: 134-155. illus., pl.16-19. S.30, 1931. no.2.

Lancaster, T. L.
Harry Carse, 1857-1930. Trans. & Proc. New Zeal. Inst. 62: 176-178. port. S.30, 1931. no.2.

Sainsbury, G. O. K.
South Island mosses recently found in the North Island. Trans. & Proc. New Zeal. Inst. 62: 82-85. S.30, 1931. no.2.

Trans. Roy. Canad. Inst.
MacArthur, J. W.
Linkage studies with the tomato III. Fifteen factors in six groups. Trans. Roy. Canad. Inst. 18: 1-19. S.1931. pt.1(no.39).

U.S. Dept. Agr. Farm. Bull.
Piper, C. V.
Important cultivated grasses... rev. by H.N. Vinall and C. E. Enlow. U.S. Dept. Agr.Farm. Bull. 1254. 34 p. illus. O.1931(Rec'd N.)
The taxonomy of the grasses... was brought up to date by Agnes Chase.

Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie)
Gordiagin, A. I.
O flore Raifskoĭ lesnoi dachĭ (Ueber die flora des forstreviers von Raïfa). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 227-249. map. 1931. no.2/3.
Russian.

Zhurn. Russk. Bot. Obshch. (Jour. Soc. Bot. Russie) (cont.)

Iakovlev, M. S.
K voprosu nakopleniia bubil'nukh veshchestv v badane v raznoe vremia goda (Zur frage der ansammlung von gerbstoffen in badan (Bergenia crassifolia (L. Fritsch) zu verschiedener zeit des jahres). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 159-167. illus. 1931. no.2/3.
Russian with German summary.

Ivanov, L.A. & Orlova, I.M.
K vorposu o zimnem fotosinteze nashikh khvoĭnykh (Zur frage über die winterassimilation von köhlensäure unserer nadelhölzer). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 139-157. 1931. no.2/3.
Russian with German summary.

Kolokol'nikov, L. B.
K sistematike Anthoxanthum odoratum L.(Zur systematik von Anthoxanthum odoratum L.) Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 191-196. illus. 1931. no.2/3.
Russian with German summary.
Describes a number of new varieties.

Kotov, M. I.
Geobotanicheskiĭ ocherk lesov Letichevskoĭ nizmennosti okrestnosteĭ g. Leticheva (A geobotanical report of the woodland situated in the Letichov depression (Podolia). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 205-225. 1931. no.2/3.
Russian with English summary.

Leskov, A. I.
Nekotorye zamechaniia po povodu vymiraniia tissa na Severnom Kavkaze (Einige bemerkungen anlässlich des aussterbens der eibenbäume im nördlichen Kaukasus). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 197-203. 1931. no.2/3.
Russian with German summary.

Troitsky, N. I.
Primula acaulis (L.) Jacq. na Ukraine. Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 251-254. 1931. no.2/3.
Russian with German summary.

Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) (cont.)

Zazhurilo, K. K.

K klassifikatsii ornitokhornykh plodov i semian (Ueber die klassifikation der ornitochoren früchte und samen). Zhurn. Russk. Bot. Obshch. (Journ. Soc. Bot. Russie) 16: 169-189. illus. 1931. no.2/3.

Russian with German summary.

Exper. Stat. Publ.

Vansell, G. H.

Nectar and pollen plants of California. California Agr. Exp. Stat. Bull.517. 55 p. illus., tab. O.1931(Rec'd N.)

Brooks, A. N.

Crimp - a nematode disease of strawberry. Florida Agr. Exp. Stat. Bull. 235. 27 p. illus. Jl.1931(Rec'd D.)

Rhoads, A. S. & DeBusk, E. F.

Diseases of citrus in Florida. Florida Agr. Exp. Stat. Bull. 229. 213 p. illus. Je.1931 (Rec'd D.)

Tisdale, W. B.

Development of strains of cigar wrapper tobacco resistant to blackshank (Phytophthora nicotianae Breda de Haan). Florida Agr. Exp. Stat. Bull. 226. 45 p. illus. Mr.1931(Rec'd D.)

Weber, G. F.

Spraying and dusting cucumbers for control of downy mildew from 1925 to 1930. Florida Agr. Exp. Stat. Bull. 230. 58 p. Je.1931(Rec'd D.)

Robinson, R.H. & Whitaker, C. F.

Commercial economic poisons commonly known as fungicides and insecticides. Oregon Agr. Exp. Stat. Circ. 106. 22 p. Jl.1931(Rec'd D.)

State Publications.

Durrell, L. W.

Smuts of Colorado grains. Colo. Agr. Coll. Ext. Serv. Bull. 306-A. 24 p. illus. S.1931.

New Books.

Alston, A.H.G.
A handbook to the flora of Ceylon... by Henry Trimen pt.VI. Supplement London, Dulau & Co., 1931.

Ascherson, P. & Graebner, P.
Synopsis der mitteleuropäischen flora... nach Aschersons tode fortgesetzt von P. Graebner sen. und P. Graebner fil. lfg. 123 /124 (bd.12, 2 Compositae (Hieracium bearb. von H. Zahn) Leipzig, Borntraeger, 1931.

Coulter, J.M.
A textbook of botany... 3. v. N.Y., [etc] American book company, 1930-31.
Vol. 1 Morphology, rev. by J.M. Coulter. - v.2, Physiology, rev. and enl. by C.A. Shull, - v.3, Ecology, rev. and enl. by G.D. Fuller.

Küster, E.
Ueber zonenbildung in kolloidalen medien. Von Dr. Ernst Küster... 2. neubearb. aufl. Jena, G. Fischer, 1931.

Steffen, H.
Vegetationskunde von Ostpreussen. Jena, G. Fischer, 1931(Pflanzensoziologie... bd.1)

Wehsarg, O.
Ackerunkräuter... Berlin, Deutsche landwirtschafts-gesellschaft. 1931(Anleitungen für den praktischen landwirt... Der sammlung nr.32)

Zahlbruckner, A.
Catalogus lichenum universalis v.7 (schluss) Leipzig, Borntraeger, 1931.

Reprints from Journals not yet rec'd or not available.

Tideström, I.
En värdig Linné-ättling. Svensken, som utarbetade flora för en tredjedel av Förenta Staterna. Separate from Allsvensk Samling 18: 6-7. port. N.10,1931.
P.A. Rydberg.

Translations filed in Library of Bur. of Plant Industry.

Posthumus, O.
Overzicht der op Java inheemsche en ingevoerde oorspronkelijke rietsoorten (Survey of cane varieties indigenous to Java and of imported original varieties). Arch. Suikerind. Nederl. Indië 1931: 901-911. Ag.11, 1931.

Rudeloff, M.
Untersuchungen über der einfluss des blauwerdens auf die festigkeit von kiefernholz. I-II. (Investigations concerning the influence of blueing on the strength of pine wood. I-II). Berlin, J. Springer, 1897-1899.

Non-current indexing.

Anal. Inst. Biol. Univ. Nac. Mexico.

Laguna, A. R.
Contribucion para al conocimiento de la agaves Mexico, Agave karwinskii, Zuccarini. Anal. Inst. Biol. Mexico 1: 313-317. illus. 1930.

Gosud. Inst. Tabak. (State Inst. Tobacco Invest. Bull.) Krasnodar.

Bakhtadze, I. G.
Sortovoĭ sostav Abkhazskikh tabakov (The sorts of Abkhasian tobaccos). Gosud. Inst. Tabak.(State Inst. Tobacco Invest. Bull.) Krasnodar no.67. 119 p. illus., map 1930(Rec'd N.1931)
Russian with English summary.

Jahrb. St. Gall. Naturw. Ges. (St.Gallen)

Heyer, A.
Floristische mutationen in der umgebung von St. Gallen seit 1910. Jahrb. St. Gall. Naturw. Ges. 65: 118-122. 1930.

Inhelder, J.
Beiträge zur moos- und flechtenflora des Obertoggenburgs. Jahrb. St.Gall. Naturw. Ges. 65: 131-136. 1930.

Nüesch, E.
Variabilität von Lycoperdon umbrinum Pers. Jahrb. St. Gall. Naturw. Ges. 65: 123-130. 1930.

Tanner, H.
Ueber verbänderungen (fasciationen) an unseren waldbäumen. Jahrb. St.Gall. Naturw. Ges. 65: 47-70. illus., 4 pl. on 2. 1930.

Non-current indexing. (cont.)

Jahrb. St. Gall. Naturw. Ges. (cont.)

Winkler, O.
Ueber die beziehungen zwischen forstgeschichte und pflanzengeographie (beispiele aus dem St. Galler oberland). Jahrb. St. Gall. Naturw. Ges. 65: 71-98. 8 pl. on 4. (incl.map) 1930.

Zollikofer, C.
Zur fortpflanzung von Poa alpina L. Jahrb. St. Gall. Naturw. Ges. 65: 99-117. 4 pl. on 2. 1930.

Mém. Soc. Biogéogr. (Paris)

Cardot, J.
Le Peuplement bryologique des Iles Britanniques. In Bristowe, W.S. & others. Contribution l'étude de peuplement des Iles Britanniques. Mém. Soc. Biogeogr. 3: 151-16. 1930(Rec'd N.1931)

Wilmott, A. J.
Concerning the history of the British flora. In Bristowe, W.S. & others. Contribution a l'étude de peuplement des Iles Britanniques. Mém. Soc. Biogeogr. 3: 163-193. 1930(Rec'd N.1931)

Quart. Rev. Biol. (Baltimore)

Thunberg, T.
The hydrogen-activating enzymes of the cells. Quart. Rev. Biol. 5: 318-347. S.1930. no.2.

Rev. Path. Veg. & Entom. Agr. (Paris)

Arnaud, G. & Barthelet, J.
Le mildiou des poires en France (Phytophthora sp.) Rev. Path. Vég. & Entom. Agr. 16: 303-308. illus. N./D. 1929 no.9/10.

Charpentier, C.
Permanganate de potasse contre Polyporus sulfureus. Rev. Path. Vég. & Entom. Agr. 16: 273. N./D.1929 no.9/10.
On Sophora.

Dufrenoy, J., Sarejani, J. & Stamatinis, N.
Etude expérimentale d'une maladie bactérienne du tabac. Rev. Path. Vég. & Entom. Agr. 16: 186-192. illus. Je./Jl. 1929 no.6/7.
Wild fire.

Non-current indexing. (cont.)

Rev. Path. Vég. & Entom. Agr. (cont.)

Guyot, A. L.
De l'organisation comparée de la lutte chimique contre les ennemis des cultures en France et en Suisse. Rev. Path. Vég. & Entom. Agr. 16: 203-210. Je./Jl. 1929 no.6/7.

Guyot, A. L.
De quelques Balais de sorcière nouveau ou peu connus. Rev. Path. Vég. & Entom. Agr. 16: 273-275. illus. N./D. 1929 no.9/10.
Taphrina institiae on Prunus spinosa, unknown cause on Cytisus laburnum, Puccinia rübsaameni on Origanum vulgare.

Legendre, R.
Applications du pH à la conservation des produits végetaux. Rev. Path. Vég. & Entom. Agr. 16: 178-185. Je./Jl. 1929 no.6/7.

Nicolas, G.
Rouilles et charbon du blé dans la Haute-Garonne en 1929. Rev. Path. Vég. & Entom. Agr. 16: 165-167. Je./Jl. 1929 no.6/7.

Noury, H. C.
A propos du Puccinia rübsaameni. Rev. Path. Veg. & Entom. Agr. 16: 194-195. Je./Jl. 1929 no.6/7.
With comment by A.L. Guyot.

Reichert, I.
Note sur le Sclerotium parasite du maïs. Rev. Path. Vég. & Entom. Agr. 16: 230-234. illus. O.1929 no.8.
S. bataticola.

Rosella, E.
Observations sur l'Ascochyta de la luzerne. Rev. Path. Vég. & Entom. Agr. 16: 226-229. illus. O.1929 no.8.

Rosella, E.
Sur deux cas de septoriose au Maroc. Rev. Path. Vég. & Entom. Agr. 16: 211-213. illus. Je./Jl. 1929 no.6/7.
Septoria graminus, S. nodorum.

Non-current indexing. (cont.)

Rev. Path. Vég. & Entom. Agr. (cont.)
Yossifovitch, M.
Peronospora arborescens (Berck.) de Bary, parasite trés important de Papaver somniferum en Yougoslavie. Rev. Path. Vég. & Entom. Agr. 16: 235-270. illus. O.1929 no.8.

Timberman. (Portland, Ore.)
Mell, C. D.
Biography of the word "mahogany" pt.I-III The Timberman 31(12): 146,148,150, 152. O.1930; 32(1): 180,182,184; (2): 113-115. N., D.1930.

Trans. Illum. Eng. Soc.
Hibben, S. G.
Some light reflecting properties of flowers and foliage. Trans. Illum. Eng. Soc. 24: 752-769. illus. O.1929. no.8.

State Publications.
Alden, C. H.
Apple insects and diseases and how to control them. Georgia State Bd. Entom. Bull.73. 32 p. illus. D.1930.

New Books.
Canada. Experimental farms - Div. of botany.
Annual report on the prevalence of plant diseases in the Dominion of Canada 5th-6th, 9th, 1925-26, 1929. (Rec'd 1931)
5th and 6th have no date of issue; 9th, Ja.1931.
Mimeographed.
5th & 6th by J. B. McCurry and A.J. Hicks: 9th by I.L. Conners.

Library, U. S. Dept. of Agriculture
JAN 7 1932

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY.
COMPILED FROM PUBLICATIONS RECEIVED IN THE
LIBRARY OF THE UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

Vol.13, no. 25.

Dec.7-19, 1931.

Acta Phytochim. (Tokyo)

Kinoshita, K.
Ueber die produktion von itaconsäure und mannit durch einen neuen schimmelpilz, Aspergillus itaconicus. Acta Phytochim. 5: 271-287. illus. O. 1931. no.3.

Agric. Colon. (Firenze)

Rossi, V.
Contributo allo studio della patologia vegetale in Somalia. Agric. Colon. 25: 522-528. N.1931. no.11.

Agr. Gaz. N.S.W. (Sydney)

Magee, C. J.
Virus diseases of potatoes. Agr. Gaz. N.S.W. 42: 839-841. illus. N.1, 1931. no.11.

Amer. Fruit Grow. (Chicago)

Talbert, T. J.
Winter warfare on orchard enemies. I- Amer. Fruit Grow. 51(11): 8-9. illus. N.1931.

Amer. Journ. Bot.

Bartholomew, E. T.
Certain phases of citrus leaf transpiration. Amer. Journ. Bot. 18: 765-783. illus. N.1931. no.9.

Borthwick, H.A., Phillips, M. & Robbins, W.W.
Floral development in Daucus carota. Amer. Journ. Bot. 18: 784-796. illus., pl. lii. N.1931. no.9.

Cooper, D. C.
Macrosporogensis and the development of the macrogametophyte of Lycopersicum esculentum. Amer. Journ. Bot. 18: 739-748. pl.xlviii-l. N. 1931. no.9.

Johnson, A. M.
Studies in Saxifraga II. Teratological phenomena in certain North American species of Saxifraga. Amer. Journ. Bot. 18: 797-802. pl. liii-liv. N. 1931. no.9.

Amer. Journ. Bot. (cont.)

Munz, P. A.

Studies in Onagraceae VII. The subgenus Pachylophis of the genus Oenothera. Amer. Journ. Bot. 18: 728-738. N.1931. no.9.

O. caespitosa var. jonesii, n.var., O. caespitosa var. brandegeei n.var., O. kernensis n.sp.

Reed, G. M.

Inheritance of smut resistance in hybrids of early Gothland and Monarch oats. Amer. Journ. Bot. 18: 803-815. N.1931. no.9.

Shirley, H. L.

The influence of light and temperature upon the utilization by young seedlings of organic reserves in the seed. Amer. Journ. Bot. 18: 717-727. N. 1931. no.9.

Vestal, E. F. & Bell, F. G.

A preliminary study of some environmental factors on the spread of Cercospora leaf spot and yield in checked and drilled sugar beets. Amer. Journ. Bot. 18: 705-716. illus. N.1931. no.9.

Wodehouse, R. P.

Pollen grains in the identification and classification of plants. VI. Polygonaceae. Amer. Journ. Bot. 18: 749-764. pl. li. N.1931. no.9.

Amer. Journ. Pharm. (Philadelphia)

Youngken, H. W.

A pharmacognostical study of Derris. Amer. Journ. Pharm. 103: 628-637. illus. N.1931. no.11.

Ann. Mus. Colon. Marseille.

Jumelle, H.

Plantes du Soudan francais récoltées par le Lieutenant Boery. Ann. Mus. Colon. Marseille v.39(IV,9), fasc.2. 23 p. 1931.

Ann. Natal Mus.

Warren, E.

A statistical study of certain interspecific plant hybrids and backcrosses. Ann. Natal Mus. 6: 363-414. pl.xxv-xxxii, tab. F.1931. no.3.

Venidium and Arctotis hybrid and backcrosses; interspecific hybrids of aloes.

Ann. Rep. Dept. Agr. & Stock Queensland.
Morwood, R. B.
The work of the pathological branch. Ann. Rep. Dept. Agr. & Stock Queensl. 1930/31: 47-48. 1931.

Ann. Rep. Dept. Agr. Tasmania.
Tasmania. Dept. of agriculture.
Plant pathology. In its Ann. Rep. 1929/30: 28-31. [1931]
Mimeographed.

Ann. Rep. Dept. Agr. Uganda (Kampala)
Hansford, C. G.
Annual report of the mycologist. Ann. Rep. Dept. Agr. Uganda 1930(2): 58-65. pl. 1931.
Appl.1: Blackarm disease of cotton in Uganda: p.60-64.

Ann. Rep. Smithsonian Inst. (Washington, D.C.)
Blakeslee, A. F.
Extra chromosomes, a source of variations in the Jimson weed. Ann. Rep. Smithson. Inst. 1929/30: 431-450. illus., 13 pl. on 7. 1931.

Brackett, F. S. & Johnston, E. S.
New researches on the effect of light waves on the growth of plants. Ann. Rep. Smithson. Inst. 1929/30: 255-264. 3 pl. on 2. 1931.

Killip, E.P. & Smith, A. C.
The use of fish poisons in South America. Ann. Rep. Smithson. Inst. 1929/30: 401-408. 5 pl. on 3. 1931.

Thackery, F. A. & Gilman, M. F.
A rare parasitic food plant of the southwest. Ann. Rep. Smithson. Inst. 1929/30: 409-416. 9 pl. on 5. 1931.
Annobroma sonorae.

Arb. Biol. Reichsans. Land- u. Forstw. Berlin.
Hey, A. B. F.
Beitrage zur spezialisierung des gerstenzwergrostes, Puccinia simplex Erikss. et Henn. Arb. Biol. Reichsanst. Land- u. Forstw. 19: 227-261. 1931.
Previously listed as reprint.

Arb. Biol. Reichsanst. Land- u. Forstw. Berlin. (cont.)

Köhler, E.

Ueber das verhalten von Synchytrium endobioticum auf anfälligen und widerstandsfähigen kartoffelsorten. Arb. Biol. Reichsanst. Land- u. Forstw. Berlin 19: 263-284. iv pl. 1931. no.3.

Longrée, K.

Untersuchungen über die ursache des verschiedener verhaltens der kartoffelsorten gegen schorf. Arb. Biol. Reichsanst. Land- u. Forstw. Berlin 19: 285-336. 1931. no.3.

Arch. Suikerind. Nederl. Indië (Meded.) (Soerabaja)

Bolle, P. C.

Voorloopige proeven en beschouwingen over bestrijding van de geelvlekkenziekte. Arch. Suikerind. Nederl. Indië 1931, pt.3. (Meded.27): 1189-1206. 1931.

Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia.

Bergamaschi, M.

Sull'assorbimento del biossido di carbonio per opera delle radici e sulla sua utilizzazione nella fotosintesi clorofilliana. Att Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV, 1: 89-94, 117-149. illus. 1929 (Rec'd D.1931)

Curzi, M.

Intorno alla posizione sistematica di un Fusarium isolato dalla pelle del cane. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV, 1: 95-105. illus. 1929(Rec'd D.1931)

F. moronei n.sp.

Curzi, M.

Su una "pseudocarie" delle cariossidi di frumento. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV,1: 151-155. illus. 1929. (Rec'd D.1931)

Acremoniella thermophila n.sp. in caryopsis of Triticum vulgaris.

Gioelli, F.

Valore die caratteri zimogeni sulla classificazione di alcune forme di miceti. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV, 1: 59-74. 1929(Rec'd D.1931)

Monilia.

Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia (cont.)

Pollacci, G. & Bergamaschi, L.
Dimostrazione con la dimetilidrorescorcina della formazione di aldeide formica in piante vive durante la fotosintesi clorofilliana. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV, 1: 157-160. 1929(Rec'D.1931)

Pollacci, G.
Fridiano Cavara. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV,1: i-xv. port. 1930(Rec'd D.1931)

Pollacci, G.
Ricerche sperimentali sulla coltura in Italia, e scopo industriale, del lauro canfora. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV,1: 1-58. illus. 1929(Rec'd D.1931)

Rassegna fitopatologica, zoomicopatologica ed attività del Laboratorio crittogamico di Pavia durante 1928-1929. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV,1: 225-239, 241-249. 1929. (Rec'd D. 1931)

Rossi, E.
Sulla germinabilità del seme di Pinus maritima Lam. in rapporto alla temperatura. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV, 1: 107-115. 1929.

Zambelli, E.
Ricerche anatomico-fisiologiche sulla Petunia violacea e sulla Petunia nyctaginiflora come piante insettivore. Atti Ist. Bot. Giov. Briosi e Lab. Critt. Ital. R. Univ. Pavia IV, 1: 75-87. 1929(Rec'd D.1931)

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. (Rome)

Cappelletti, C.
Sulla resistenza dello stolofillo di Tulipa silvestris L. alla penetrazione dei miceli. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 13: 937-940. illus. Jl.1931. no.12.

Austral. Journ. Exp. Biol. & Med. Sci. (Adelaide)

McLennan, E. I.

A disease of hops in Tasmania and an account of a protomyxean organism, Leptomyxa reticulata Goodey var. humuli (nov.var.) associated with it. Austral. Journ. Exp. Biol. & Med. Sci. 8: 9-44. illus. Mr.16, 1931.

Disease known as "take-all", thought to be a virus disease, probably identical with "false nettlehead".

Beitr. Biol. Pflanz. Cohn. (Breslau)

Fischer, H.

Bericht über im sommerhalbjahr 1930 ausgeführte versuche zur kohlenstoff-ernährung der pflanzen. Beitr. Biol. Pflanz. Cohn 19: 232-247. 1931. no.2.

Schaede, R.

Ueber einige probleme der kernteilung. Beitr. Biol. Pflanz. Cohn. 19: 141-177. pl.3. 1931. no.2.

Winkler, H.

Bausteine zu einer monographie von Ficaria. 7. Ranunculus ficaria als amphibische hydrochore. Beitr. Biol. Pflanz. Cohn 19: 228-231. illus. 1931. no.2.

Wolff, A

Fruchtung einiger ranunculaceen mit einsamiger schliessfrücht unter besonderer berücksichtigung der achsenverhältnisse. Eine variationsstatistische untersuchungen. Beitr. Biol. Pflanz. Cohn 19: 178-227. 1931. no.2.

Blätt. Pflanzenb., u. Pflanzenzücht. (Tetschen)

Blattny, C.

Ueber einige besonders phytopathologische fragen im gemüse- und frühkartoffelbau. Blätt. Pflanzenb. u. Pflanzenzücht. 9: 29-33. Jl.1931. no.2/3.

Knienieder, H.

Beitrag zur kenntnis des einflusses des blattgrüns auf den stärkegehalt bei Solanum tuberosum. Blätt. Pflanzenb. u. Pflanzenzücht. 9: 33-38. Jl. 1931. no.2/3.

Boll. Soc. Ital. Biol. Sper. (Napoli)

Colla, S.

Sulle variazioni del contenuto in O_2 e CO_2 negli organi di Nymphaea alba L. Boll. Soc. Ital. Biol. Sper. 6: 823-826. Ag.1931. no.8.

Bryologist (Pittsburg)

Clark, L. & Frye, T.C.

Hepaticae new to some northwestern states. Bryologist 34: 54-55. Jl.1931. no.4.

Pitman, E. M.

Mosses of Orr's Island, Maine. Bryologist 34: 57-58. Jl.1931. no.4.

Svihla, R. D.

Notes on Buxbaumia piperi in western Washington. Bryologist 34: 56. Jl. 1931. no.4.

Williams, R. S.

Blindia roerichii, sp.nov. Bryologist 34: 49-51. pl. iii. Jl.1931. no.4.

Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac.) (Bucurest)

Ghimpu, V.

Sinspermia la tutun. Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac.) 20: 206-209. 1 pl. Ap./Je. 1931. no.2.

French summary: p.209.

Piescu, A.

Cercetări comparative asupra morfologiei şi fisiologiei tutunurilor Românesti (Recherches comparatives ayant trait à la morphologie et physiologie des tabacs Roumains). Bulet. Cult. si Ferm. Tutun. (Bull. Inst. Exp. Cult. & Ferm. Tabac) 20: 109-205. pl. i-xiv. Ap./Je. 1931. no.2.

French summary: p.201-205.

Bull. Dept. Agr. Bombay (Poona)

Joshi, K. V.

The frost of January 1929 and its damage to crops of the Bombay presidency. Bull. Dept. Agr. Bombay no.165(1930). 47 p. 13 pl. incl. 7 maps. 1931.

Bull. Dir. Gén. Agr. Comm. et Colon. Tunis.
Chabrolin, C
Le mildiou de la vigne dans ses rapports avec la pluviométrie en Tunisie. Bull. Dir. Gén. Agr. Comm. et Colon. Tunis 35: 235-256. 1931. no.146.

Bull. Inst. Egypte.
Mosséri, V.
Le développement du fruit et la formation des réserves chez le cotonnier et les végétaux en général. Bull. Inst. Egypte 13: 1-14. 1931.

Bull. Inst. Plantenz. Alg. Proefst. Landb. Buitenz.
Muller, H. R. A.
Mozaiekziekte bij cassave. Bull. Inst. Plantenz. Alg. Proefst. Landb. Buitenz. 24. 17 p. 8 pl. 1931.

Bull. Soc. Chim. France (Paris)
Bertrand, G. & Levy, G.
Recherches sur la teneur des plantes et, notamment des plantes alimentaires, en aluminium. Bull. Soc. Chim. France 49: 1417-1425. O.1931. no.10.

Bull. Techn. Sect. Roy. Agr. Soc. Egypt.
Fikry, M. A.
Natural crossing in cotton. Bull. Techn. Sect. Roy. Agr. Soc. Egypt. 18. 23 p. 3 tab. 1931.

Bull. Torr. Club.
Gleason, H.A. & others.
Botanical results of the Tyler-Duida expedition Bull. Torr. Club 58: 345-404. illus.,pl.27-33. Je. 1931 (Rec'd D.) no.6.

Butler Univ. Bot. Stud. Paper (Indianapolis)
Aufderheide, H.
Chromosome numbers in Fagus grandifolia and Quercus virginiana. Butler Univ. Bot. Stud. Paper 2: 45-52. illus. O. 1931. no.5.

Geisler, F.
Chromosome numbers in certain species of Helianthus. Butler Univ. Bot. Stud. Paper 2: 53-62. illus. O.1931. no.6.

Canad. Field Nat. (Ottawa)

LaRocque, A.

List of original descriptions published by the Ottawa field-naturalists' club. Canad. Field Nat. 45: 214-222. D.1931. no.9.

Lewis, H. F.

An annotated list of vascular plants collected on the North Shore of the Gulf of St. Lawrence, 1927-1928(cont.) Canad. Field Nat. 45: 225-228. D.1931. no.9.

Chinese Journ. Physiol. (Pieping)

Chou, T., Pak, C., Hou, H. C. & Liu, J. C.

The alkaloids of Chinese Gelsemium, kou wen, Gelsemium elegans, Bth. Chinese Journ. Physiol. 5: 345-352. illus. N.15, 1931. no.4.

Notes on their physiological properties by C. Pak and H.C. Hou and botanical identification by J.C. Liu.

Citrus Leaves. (Redlands, Cal.)

Reed, H. S.

The disorganization of cells accompanying mottle leaf. Citrus Leaves 11(12): 6. D.1931.

Compt. Rend. Acad. Agr. France (Paris)

Vinet, E.

Le diagnostic ligneux des plantes vivaces (vigne) et sa relation avec le diagnostic foliaire. Compt. Rend. Acad. Agr. France 17: 954-960. N.25, 1931. no.28.

Compt. Rend. Acad. Sci. Paris.

Camargo, T. de.

Influence du rapport potasse sur le développement du caféier pendant le azote première période de végétation. Compt. Rend. Acad. Sci. Paris 193: 1032-1034. N.23, 1931. no.21.

Chadefaud, M.

Sur la signification morphologique du stigma des zoospores et des zoogamètes chez les hétérokontes et les phéophycees. Compt. Rend. Acad. Sci. Paris 193: 1030-1032. N.23, 1931. no.21.

Compt. Rend. Acad. Sci. Paris (cont.)

Chevalier, A.
Sur l'extension et la propagation de la maladie de la rosette de l'arachide au Sénégal. Compt. Rend. Acad. Sci. Paris 193: 1115-1117. N.30, 1931. no.22.

Lesage, P.
Le Lepidium sativum à des latitudes différentes en 1931. Compt. Rend. Acad. Sci. Paris 193: 1113-1115. N.30, 1931. no.22.

Sauvageau, C.
Sur la troisième sorte d'organes pluriloculaires de l'Ectocarpus secundus Kütz. Compt. Rend. Acad. Sci. Paris 193: 971-972. N.23, 1931. no.21.

Compt. Rend. Soc. Biol. Paris.

Guillemet, R.
Sur le pH optimum d'hydrolyse des huiles végétales par la lipase de la graine de ricin. Compt. Rend. Soc. Biol. Paris 108: 781-783. N.27, 1931. no. 34.

Guillemet, R.
Sur le pouvoir lipolytique de différentes variétes de graines de ricin; facteurs susceptibles de le modifier. Compt. Rend. Soc. Biol. Paris. 108: 779-781. N.27, 1931. no.34.

Contr. Boyce Thompson Inst. Plant Res.

Beale, H. P.
Specificity of the precipitin reaction in tobacco mosaic disease. Contr. Boyce Thompson Inst. Plant Res. 3: 529-539. D.1931. no.4.

Fernald, E. I.
Freezing point depressions of asparagus shoots determined by a thermo-electric method. Contr. Boyce Thompson Inst. Plant Res. 3: 483-498. D. 1931. no.4.

Guthrie, J. D.
The effect of various chemical treatments of dormant potato tubers on the peroxidase, catalase, pH, and reducing properties of the expressed juice. Contr. Boyce Thompson Inst. Plant Res. 3: 499-507. illus. D.1931. no.4.

Contr. Boyce Thompson Inst. Plant Res. (cont.)
Wilcoxon, F. & McCallan, S.E.A.
The fungicidal action of sulphur. III. Physical factors affecting the efficiency of dusts. Contr. Boyce Thompson Inst. Plant Res. 3: 509-528. D.1931. no.4.

Ecology. (Brooklyn, N.Y.)
Baldwin, H. I.
The period of height growth in some northeastern conifers. Ecology 12: 665-689. illus. O. 1931. no.4.

Bowman, P. W.
Study of a peat bog near the Matamek River, Quebec, Canada, by the method of pollen analysis. Ecology 12: 694-708. O.1931. no.4.

Haasis, F. W.
Temperature relations of lodgepole-pine seed germination. Ecology 12: 728-744. O.1931. no.4.

Sears, P.B.
Pollen analysis of Mud Lake Bog in Ohio. Ecology 12: 650-655. illus. O.1931. no.4.

Weaver, J. E.
Who's who among the prairie grasses. Ecology 12: 623-632. O.1931. no.4.

Flor. Exch. (N.Y.)
Bowers, C. G.
Thermotropism and tenderness in Rhododendron ponticum, with notes on the value of this species as a rootstock in grafting. Flor. Exch. 78(15): 31. illus. D.12, 1931.

Flor. Rev. (Chicago)
Starkey, E. J.
Carnation root rot. Flor. Rev. 69(1775): 21-22; 69(1776): 41. illus. D.3,10, 1931.
Spread by cuttings, spread through roots.

Wilson, J. W.
Diseases of plumosus (concl.) Flor. Rev. 69(1776): 40-41. D.10, 1931.
Asparagus plumosus. A previous pt. with title "Insects and diseases of Asparagus plumosus" deals only with insect diseases.

Forstw. Centralbl. (Berlin)

Stefanoff, B.

Studien über den zustand und die schwankungen des wassergehaltes in den blättern und zweigen einiger holzpflanzen. Forstw. Centralbl. 53: 784-799. N.15, 1931. no.22.

Gard. Chron. (London)

Bulb sterilisation. A new process. Gard. Chron. III,90: 432. D.5, 1931. no.2345.

Mr. H.G. Longford has recently patented a process which does away with the necessity of heat of any kind.

Coutts, J.

Liliums at Kew during 1931. Gard. Chron. III, 90: 429-430. D.5, 1931. no.2345.

Darlington, C. D.

The bearing of chromosome studies on plant breeding. (cont.) Gard. Chron. III, 90: 430-432. illus. D.5, 1931. no.2345.

Exell, A. W.

Phyllody in Papaver nudicaule. Gard. Chron. III, 90: 415. illus. N.28, 1931. no.2344.

Friend, H.

Horticulture in relation to commerce. XIX. Soap plants and tallow trees. Gard. Chron. III, 90: 412. N.28, 1931. no.2344.

Rechsteineria macropoda. Gard. Chron. III, 90: 410. illus. N.28, 1931. no.2344.

Small, J.

Revelations of a pocket-lens. (cont.) Gard. Chron. III, 90: 411. illus. N.28, 1931. no.2344.

Gartenbauwiss. (Berlin)

Flachs, K.

Durch Sclerotinia minor Jagg. hervorgerufene salatfäule und versuche zu ihrer bekämpfung. Gartenbauwiss. 5: 541-556. illus. N.13, 1931. no.6.

Gartenbauwiss. (cont.)

Kotte, W.
Spritzmittelschäden im obstbau. Gartenbauwiss. 5: 525-540. illus. N.13, 1931. no.6.

Mehlitz, A.
Ueber die verwertbarkeit der früchte con Citrus trifoliata. Gartenbauwiss. 5: 568-573. N.13, 1931. no.6.

Sachoff, Th.
Untersuchungen über die fruchtbarkeit der süsskirschen-, sauerkirschen-, zwetschen-und pflaumensorten. Gartenbauwiss. 5: 574-579. illus. N.13, 1931. no.6.

Uphof, J.C.Th.
Wissenschaftliche beobachtungen und versuche an agrumen. II. Die morphologie des blattes. Gartenbauwiss. 5: 477-507. illus. N.13, 1931. no.6.

Gartenw. (Berlin)

Weiss, A.
Ist der pilz Graphium die ursache des ulmensterbens? Gartenw. 35: 657-658. N.27, 1931. no.48.

Hoppe-Seyl. Zeitschr. Phys. Chem. (Berlin)

Kylin, H.
Ueber die jodidspaltende fähigkeit von Laminaria digitata. Hoppe-Seyl. Zeitschr. Phys. Chem. 203: 58-65. N.13, 1931. no.1/2.

Inform. Agr. (Spain) (Madrid)

Collar, F.
Enfermedades de la especies arbóreas frutales. El albaricoquero. Inform. Agr. (Spain) 21: 337-341. illus. N.30, 1931. no.494.
Gomosis, Exoascus deformans, Clasterosporium carpophilum, Rosellinia necatrix, clorosis.

Intern. Bull. Plant Prot.

Kern, H.
Hungary: New or rare cryptogamic diseases. Intern. Bull. Plant Prot. 5(M): 200-202. N.1931. no.11.

Noble, R. J.
New South Wales; Plant diseases. Intern. Bull. Plant Prot. 5(M): 202-205. N.1931. no.11.

Journ. Agr. Res. (Washington, D.C.)

Jodidi, S. L.
The nonprotein nitrogen of the Alaska pea, with special reference to the chemical nature of humin nitrogen. Journ. Agr. Res. 43: 811-825. N.1, 1931(Rec'd D.7) no.9.

Johann, H., Holbert, J.R. & Dickson, J. G.
Further studies on Penicillium injury to corn. Journ. Agr. Res. 43: 757-790. illus. N.1, 1931(Rec'd D.7) no.9.
P. oxalicum, a saprophyte; a toxic substance that seems to be oxalic acid injures or kills the cells in advance of the fungus.

Offord, H. R. & d'Urbal, R. P.
Toxic action of aqueous sodium chlorate on Nitella. Journ. Agr. Res. 43: 791-810. N.1, 1931(Rec'd D.7) no.9.

Journ. For. (Washington, D.C.)

Spaulding, P. & MacAloney, H.J.
A study of organic factors concerned in the decadence of birch on cut-over lands in northern New England. Journ. For. 29: 1134-1149. illus. D.1931. no.8.

Journ. Genetics (London)

Dark, S. O. S.
Chromosome association in triploid Primula sinensis. Journ. Genetics 25: 91-95. illus. N.1931. no.1.

Huskins, C. L.
A cytological study of Vilmorin's unfixable dwarf wheat. Journ. Genetics 25: 113-124. illus. N.1931. no.1.

Pellew, C.
Genetical and cytological studies on the relations between Asiatic and European varieties of Pisum sativum, I-II. Journ. Genetics 25: 25-35, 35-54. illus. N.1931. no.1.
E.R. Sansome joint author II.
I. Partial sterility in hybrids of a Thibetan and a European variety. II. Chromosome association in Pisum.

Journ. Genetics (cont.)

Watkins, A.E. & Cory, F.M.
Genetic and cytological studies in wheat. V. Journ. Genetics 25: 55-90. N.1931. no.1.

Journ. Hered. (Washington, D.C.)

Cook, R. C.
The first plant patent. Journ. Hered. 22: 313-319. illus. O. 1931. no.10.
Granted to H.F. Bosenberg for everblooming rose. This rose is "same as well-known climbing rose originated by Dr. Walter Van Fleet, and bearing his name, except that it is claimed to be everblooming."

Dickerson, L. M.
The inheritance of ruby seed coat color in peas. Journ. Hered. 22: 319-321. O.1931. no.10.

Harlan, H. V.
The origin of hooded barley. Journ. Hered. 22: 265-272. illus. S.1931. no.9.
"Our guess is that hooded barley appeared as a mutant in a naked mountain barley of Nepal or west China not more than 150 years ago".

Journ. Indian Inst. Sci. (Madras)

Sathe, T. R. & Subrahmanyan, V.
The relation between seeds and micro-organisms. Journ. Indian Inst. Sci. 14A: 119-139. [1931]
Seeds and soil micro-organisms, under natural conditions, are physiologically unrelated.

Journ. Jamaica Agr. Soc. (Kingston)

Smith, F. E. V.
The leaf diseases of Irish potatoes in Jamaica. Journ. Jamaica Agr. Soc. 35: 489-494. 1 pl. N. 1931. no. 11.

Journ. Sapporo Soc. Agr. & For.

Ito, S. & Terui, M.
On the influence of oryzanin upon the development of fungi. Journ. Sapporo Soc. Agr. & For. 23: 221-258. N.1931. no.106.

Julk. Suomalaisen Eläin-& Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo)

Ahonen, I.
Blattanatomische untersuchungen an zwergsträuchern und kräutern der moore. Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 15: 1-100. illus. 1931.

Luotola, V. L.
Tutkimuksia Kustavin kasvillisuudesta ja kasvistosta (Untersuchungen über die schärenvegetation und- flora im kirchspiel Kustavi). Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 15: 152-248. illus. (incl. maps) 1931.
Finish with German summary.

Paasio, I.
Pohjois-Satakunnan soiden jäkälistä (Ueber die flechten der moore in Nord-Satakunta). Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 15: 133-151. 1931.
Finnish with German summary.

Parvela, A. A.
Oulun läänin viljelyskasvit, niiden historia ja nykyinen levinneisyys (Ueber die kulturpflanzen in Län Oulu (Uleaborg), ihre geschichte und verbreitung). Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 13: 1-354. illus. (maps) 1930 (Rec'd D.1931)
Finnish with German summary.

Saastamoinen, S.
Mesimarja (Rubus arcticus L.) Suomessa (Die nordische himbeere (Rubus arcticus L.) in Finnland). Julk. Suomalaisen Eläin- & Kasvit. Seuran Vanamon (Ann. Soc. Zool.-Bot. Fenn. Vanamo) 13: 355-414. illus. (maps) 1930(Rec'd D.1931)
Finnish with German summary.

Just. Liebigs Ann. Chem. (Berlin)

Wieland, H. & Ishimasa, M.
Ueber lobinin ein neues alkaloid der Lobeliapflanze. Just. Liebigs Ann. Chem. 491: 14-29, illus. N.21, 1931. no.1.

Landbouw. Tijdschr. Vereen. Landb. Nederl.-Indië. (Buitenzorg)
Vries, E. de.
Over periodiciteitsverschijnselen bij den mangga. (Periodical growth phenomena of the mango tree) Landbouw. Tijdschr. Vereen. Landb. Nederl.-Indië. 7: 259-308. O.1931. no.4.
English summary: p.305-308.

Lesnická Práce (L'Oeuvre For.))Pisek, Moravia)
Zlatnik, A.
Ekologie lesních dřevin a sociologie lesa. (Oecologie des essences forestières et la sociologie des forets). Lesnická (L'Oeuvre For.) 10: 441-449. 1931. no.10.
In Czechoslovakian.

Madrono (San Francisco)
Meyer, C. V.
Southward extension of range of Arbutus menziesii. Madrono. 2: 41-42. N.1931. no.5.

Mezögazd. Kutat. Budapest.
Terénya, S.
Cukorrepapermetezési Kisérletek (Zuckerrübenspritzungsversuche) Mezögazd. Kutat. Budapest. 4: 406-418. N.1931. no.11.
Cercospora.
German summary.

Missouri Bot. Gard. Bull. (St. Louis)
Moore, J. A.
All-thorn. Missouri Bot. Gard. Bull. 19: 141-142. pl.32. N.1931. no.9.
Koeberlinia spinosa.

Woodson, R. E. jr.
Vegetable marble. Missouri Bot. Gard. Bull. 19: 142-143. N.1931. no.9.
Burled wood.

Mitt. Bot. Mus. Univ. Zürich.

Däniker, A. U.

Ergebnisse der reise...nach Neu-Caledonien und der Loyalitäts-inseln, 1924/25. 2-3. Mitt. Bot. Mus. Univ. Zürich 137, III. O.14, 1931. (Reprinted from Vierteljahrsschr. Naturf. Ges. Zürich 76: 160-213. illus. 1931)

2. Neue phanerogamen von Neu-Caledonien und den Loyalitäts-inseln. 3. Die Loyalitäts-inseln und ihre vegetation.

Kränzlin, F. B.

Beiträge zur kenntnis der Melastomataceae. Mitt. Bot. Mus. Univ. Zürich 137, II. O.14, 1931. (Repr. fr. Vierteljahrsschr. Naturf. Ges. Zürich 76: 147-159. 1931.)

Schinz, H.

Beiträge zur kenntnis der afrikanischen flora XXXIV. Mitt. Bot. Mus. Univ. Zürich 137, I. Oct.14, 1931. (Repr. from Vierteljahrsschr. Naturf. Ges. Zürich 76: 133-146. illus. 1931)

Mitt. Landesver. Sächs. Heimatschutz. (Dresden)

Naumann, A.

Ein aufdringlicher mongole. Mitt. Landesver. Sächs. Heimatschutz 20: 271-280. illus. 1931. no.5/8.

Impatiens parviflora.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Weiler,

Ueber verhütung der braunflecken-krankheit der tomaten. Möller's Deut. Gärtn.-Zeit. 46: 392-393. N.21, 1931. no.33.

Nachr. Schadlingsbekampfung. (Leverkusern b. Köl. a Rh.)

Baudys, E.

Solbar seine anwendungsmoglichkeit und bedeutung für die schädlingsbekämpfung. Nachr. Schädlingsbekämpfung 6: 97-124. illus. N. 1931.

An obstbäumen und - sträuchern, gemüse, zierpflanzen, waldbäume

Nachrichtenbl. Deut. Pflanzenschutzd. (Berlin)

Moritz. O.

Entstehungsbedingungen und verhutungsmöglichkeiten der ophiobolose des weizens. Nachrichtenbl. Deut. Pflanzenschutzd. 12: 100-101. D.1931. no.12.

Naturwissensch. (Berlin)
Kautsky, H. & Hirsch, A.
Neue versuche zur kohlensäureassimilation.
Naturwissensch. 19: 964. N.27, 1931. no.48.

Oesterr. Bot. Zeitschr. (Wien)
Chorinsky, F.
Vergleichend-anatomische untersuchung der haargebilde bei portulacaceen und cactaceen.
Oesterr. Bot. Zeitschr. 80: 308-327. illus. O.28, 1931. no.4.

Georgevitch, P.
Pinus nigra Arn. var. gočensis, n.var.
Oesterr. Bot. Zeitschr. 80: 328-336. illus. O.28, 1931. no.4.

Handel-Mazzetti, H.
Kleine beiträge zur kenntnis der flora von China. I. Oesterr. Bot. Zeitschr. 80: 337-343. O.28, 1931. no.4.

Klein, G., Krisch, M., Pollauf, G. & Soos, G.
Zum mikrochemischen machweis der betaine in der pflanze. Glykokollbetain, stachydrin und trigonellin (gleichzeitig ein beitrag zum nachweis von cholin und nikotinsäure). Oesterr. Bot. Zeitschr. 80: 273-307. illus. O.28, 1931. no.4.

Taubück, K.
Ueber einige weitere harnstoffführende pflanzen.
Oesterr. Bot. Zeitschr. 80: 344-347. O.28, 1931. no.4.

Ohio Journ. Sci. (Columbus)
Tiffany, L. H.
New and interesting plankton algae from Lake Erie. Ohio Journ. Sci. 31: 455-467. incl. 3 pl. on 2. N.1931. no.6.

Onze Ploeg Landb. Tijdschr. (Leuven)
Reyntjens, R.
Het gewoon aardappelschurft. Onze Ploeg Landb. Tijdschr. 10: 289-292, 334-339. illus. O., N., 1931. no.10,11.

Perfum. & Essent. Oil Rec. (London)
Freise, F. W.
Some unknown essential oils from Brazilian plants, used as anthelmintics. Perfum. & Essent. Oil Rec. 22: 370-371. no.24, 1931. no.12.

Pharm. Acta.Helv. (Zürich)

Flück, H.

Der diagnostische wert der spaltöffnungsgrössen offizineller blätter. (concl.) Pharm. Acta Helv. 6: 231-239. N.29, 1931. no.11.

Pharm. Journ. (London)

Moore, E. J.

Further methods in plant histology. Section cutting and staining. Pharm. Journ. 127(IV,73): 440-441. N.28, 1931. no.3552.

Pharm. Zentralh. (Dresden)

Kroeber, L.

Ueber saponin in Bellis perennis. Pharm. Zentralh. 72: 745. N.19, 1931. no.47.

Richter, J.

Die mineralischen bestandteile der pflanze. Pharm. Zentralh. 72: 737-745. N.19, 1931. no.47.

Philipp. Agr. (Los Banos)

Mendiola, N. B.

Java selected Hevea clons successfully introduced in the College of Agriculture. Philipp. Agr. 20: 375-387. illus. N.1931. no.6.

Stevens, F. L. & Celino, M. S.

Two diseases caused by Diplodia. Philipp. Agr. 20: 370-374. illus., pl.i-ii. N.1931. no.6.

Leaf spot of corn (D. macrospora); Diplodia rot of Luffa acutangula (D. adelinensis n.sp.)

Phytopath.

Davis, W. H.

Corynose twig blight of the American bladder nut, Staphylea trifolia. Phytopath. 21: 1163-1171. illus. D.1931. no.12.

Ezekiel, W.N. & Taubenhaus, J. J.

A disease of young cotton plants caused by Sclerotium rolfsii. Phytopath. 21: 1191-1194. illus. D.1931. no.12.

Hurt, R. H.

The prevention of arsenical injury to peach twigs and foliage in Virginia. Phytopath. 21: 1204. D.1931. no.12.

Phytopath. (cont.)

Lefebvre, C. L.
Preliminary observations on two species of Beauveria attacking the corn borer, Pyrausta nubilalis Hübner. Phytopath. 21: 1115-1128. illus. D.1931. no.12.
B. bassiana & B. globulifera.

Long, W. H.
Data to be noted in studying heart rots of living trees. Phytopath. 21: 1199-1200. D. 1931. no.12.

Marshall, R. P.
Water blistering of wound dressings. Phytopath. 21: 1173-1180. illus. D.1931. no.12.

Palm, B. T.
A disease of Hibiscus sabdariffa caused by Rhodochytrium. Phytopath. 21: 1201-1202. D. 1931. no.12.
R. spilanthidis.

Patch, E. M.
Warner Jackson Morse 1872-1931. Phytopath. 21: 1095-1098. port. D.1931. no.12.

Ruehle, G. D.
New apple-rot fungi from Washington. Phytopath. 21: 1141-1152. illus. D. 1931. no. 12.
Cephalosporium carpogenum, Sporotrichum carpogenum, Botrytis mali, Cladosporium malorum, n.spp.

Taubenhaus, J. J. & Ezekiel, W. N.
An anthracnose of the jujube. Phytopath. 21: 1185-1189. illus. D. 1931. no.12.
Closely related to Glomerella cingulata.

Taubenhaus, J. J. & Ezekiel, W. N.
A Sclerotinia limb blight of figs. Phytopath. 21: 1195-1197. illus. D.1931. no.12.
Sclerotinia sclerotiorum.

Tharp, W. H.
A machine for the treatment of small samples of seed grain with dust disinfectants. Phytopath. 21: 1203-1204. illus. D.1931. no.12.

Phytopath. (cont.)

Weber, G. F.
Blight of carrots caused by Sclerotium rolfsii, with geographic distribution and host range of the fungus. Phytopath. 21: 1129-1140. illus. D. 1931. no.12.

Williams, O. B. & Glass, H. B.
Agglutination studies on Phytomonas malvaceara. Phytopath. 21: 1131-1184. D.1931. no.12.

Wilson, E. E.
A comparison of Pseudomonas prunicola with a canker-producing bacterium of stone-fruit trees in California. Phytopath. 21: 1153-1161. D.1931. no.12.
P. prunicola resembles very closely an organism designated as 357, which produces a gummosis of plum and apricot trees in California. Writer hesitates to accept P. prunicola as new species till further work is done on its relationship to Ps. cerasi.

Wilson, J.J. & Reddy, C. S.
Further studies on the fungicidal efficiency of chemical dusts containing furfural derivatives. Phytopath. 21: 1099-1113. D.1931. no.12.

Yu, T.F. & Chen, H.K.
A Chinese wheat resistant to flag smut. Phytopath. 21: 1202-1203. D.1931. no.12.
Nanking no.716.

Proc. Imp. Acad. Tokyo.

Kondô, M. & Okamura, T.
Versuche über aufbewahrung von enthülsten reiskörner. Einfluss von temperatur, wassergehalt der reiskörner und anwendung eines trocknungs-mittels auf die erhaltung der keimkraft von ent-hülsten reiskörnern. Proc. Imp. Acad. Tokyo. 7: 327-330. O. 1931. no.8.

Nakai, T. & Maekawa, F.
Yoania amagiensis Nakai & F. Maekawa, a new species of Yoania. Proc. Imp. Acad. Tokyo 7: 319-322. illus. O. 1931. no.8.

Proc. Indiana Acad. Sci.

Andrews, F. M.
Attack of fungi on the wooden lids of water culture jars. Proc. Indiana Acad. Sci. 40: 68-69. 1931.

Andrews, F. M.
Liverworts of Spring Mill Park. Proc. Indiana Acad. Sci. 40: 67. 1931.

Andrews, F. M.
A study of pollen. VI. Proc. Indiana Acad. Sci. 40(1930): 69-71. 1931.

Busteed, R. C.
Notes on Uncinula circinata Cooke and Peck. Proc. Indiana Acad. Sci. 40(1930): 73-74. 1931.

Daubenmire, R. F.
Additions to the vascular flora of Parke County, Indiana. (cont.) Proc. Indiana Acad. Sci. 40(1930): 75-76. 1931.

Deam, C. C.
Plants new or rare to Indiana, XVI. Proc. Indiana Acad. Sci. 40(1930): 77-79. 1931.

French, S. J. & Wright, W. H.
The relation of pH to the absorption of dyes by bacteria. Proc. Indiana Acad. Sci. 40(1930): 175-177. 1931.

Girton, R. E.
An apparatus for use in freezing studies on fruits, bulbs and tubers. Proc. Indiana Acad. Sci. 40(1930): 81-86. illus. 1931.

Glenn, G. G. & Welch, W. H.
Ecological relationships of the most common mosses in a certain vicinity near Bloomington, Indiana. Proc.Indiana Acad. Sci. 40(1930):87-101. illus. 1931.

Morgan, W. P.
The altered rate of growth of freesia corms. Proc. Indiana Acad. Sci 40(1930): 103-105. 1931.

Proc. Indiana Acad. Sci. (cont.)

Palmer, C. M.
Algae of Indiana: additions to the 1875-1928 check list. Proc. Indiana Acad. Sci. 40(1930): 107-109. map. 1931.

Palmer, C. M.
The algae Schizomeris and Lemanea in Indiana. Proc. Indiana Acad. Sci. 40(1930): 111-113. illus. 1931.

Porter, C. L.
The Stabley Coulter herbarium at Purdue University. Proc. Indiana Acad. Sci. 40(1930): 115-117. 1931.

Welch, W. H.
Additions to the vascular flora of Jasper County, Indiana. Proc. Indiana Acad. Sci. 40(1930): 119-121. 1931.

White, H. L.
The phytoplankton of a solution pond with special reference to the periodicity of certain algae. Proc. Indiana Acad. Sci. 40(1930): 123-140. 1931.

Yuncker, T. G.
Grace Barkley. Proc. Indiana Acad. Sci. 40(1930): 21-22. port. 1931.

Proc. Univ. Durham Phil. Soc.

Harrison, J.W.H. & Blackburn, K. B.
A preliminary examination of the morphology of the somatic chromosome in Rosa. Proc. Durham Phil. Soc. 8: 332-336. illus. Jl.1931. no4.

Raistrick, A. & Blackburn, K. B.
Pollen analysis of the peat on Heathery Burn Moor, Northumberland. Proc. Univ. Durham Phil. Soc. 8: 351-358. Jl.1931. no.4.

Protoplasma (Leipzig)

Collander, R. & Somer, K.
Ueber die angebliche permeabilität der Fontinaliszellen für alkaloidkationen. Protoplasma 14: 1-10. O. 1931. no.1.

Protoplasma (cont.)

Feichtinger, N.
Ueber die einwirkung der alpha- und beta-strahlen auf das protoplasma. II. Protoplasma 14: 36-51. illus. O.1931. no.1.

Gratzy-Wardengg, E.
Degeneration von chloroplasten an farnprothallien. Protoplasma 14: 52-63. illus. O. 1931. no.1.

Pfeiffer, H.
Kleine beiträge zur bestimmung der IEP von protoplasten. III. Die bis zu konvexer plasmolyse und die refraktion von planparallelen zellen bei wechselnder CH des mediums. IV. Strömungsgeschwindigkeit und zentrifugalverlagerung des rotierenden plasmas in Nitella-zellen nach vorbehandlung mit puffergemischen. Protoplasma 14: 83-90, 90-96. O.1931. no.1.

Thoday, D. & Evans, H.
Buffer systems in Kleinia articulata. Protoplasma 14: 64-74. illus. O. 1931. no.1.

Weber, F.
Harnstoff-permeabilität ungleich alter stomatazellen. Protoplasma 14: 75-82. illus. O. 1931. no.1.

[Publ.] Ist. Sper. Tabacch. Salent.

Benincasa, M.
Una malattia del semenzai di tabacco. [Publ.] Ist. Sper. Tabacch. Salent. no.1. 8 p. 1931.

Quart. Journ. India Tea Assoc. (Calcutta)

Tunstall, A. C.
Heavy pruning and stem disease. Quart. Journ. Indian Tea Assoc. 1931: 145-153. 3 pl. 1931. no.3.

Queensl. Agr. Journ. (Brisbane)

Bell, A. F. & Cottrell-Dormer, W.
The cane-killing weed. Queensl. Agr. Journ. 36: 463-473. pl. 119-124. N.1, 1931. no.5.
Striga lutea.

Rep. Dept. Agr. Bermuda.
Cunningham, H. S.
Report of the plant pathologist, 1930. Rep. Dept. Agr. Bermuda 1930: 33-39. 1931.

Rep. Dir. Vet. Serv. Dept. Agr. So. Africa (Pretoria)
Steyn, D. G.
Recent investigations into the toxicity of known and unknown poisonous plants in the Union of South Africa. Rep. Dir. Vet. Serv. Dept. Agr. So. Africa 17(2): 707-727. 1931.

Rev. de Agr. (Piracicaba)
Roledo Piza, S. de.T.jr. & Paravicini Torres, A.
A milose nas raizes do Nothoscordum fragrans (Vent.) Kunth. Rev. de Agr. (Piracicaba) 6: 357-364. 4 pl. on 2. S./O. 1931. no.9/10.

Rev. Gén. Bot. (Paris)
Evreinoff, W. A.
Etude caryologique comparée des variétés de pommiers comme base d'un système pomologique. Rev. Gen. Bot. 43: 474-491. illus. O.1931. no.514.

Hagene, P.
Recherches écologiques sur quelques groupements végetaux des environs de Dijon. (concl.) Rev. Gén. Bot. 43: 492-516. pl.24. O.1931. no.514.

Moreau, F. & Moreau, Mme. F.
Existe-t-il une double réduction chromatique chez les ascomycètes? Rev. Gén. Bot. 43: 465-473. pl.21-23. O. 1931. no.514.

Rev. Industr. y Agr. Tucumán. (Buenos Aires)
Fawcett, G. L.
Las plantaciones de cana sin mosaico en Tucumán. Rev. Industr. y Agr. Tucuman 21: 126-127. Jl./Ag. 1931. no.7/8.

Rev. Path. Comp. (Paris)
Emery, H.
Sur le mecanisme de formation des tumeurs des plantes. Rev. Path. Comp. 31: 1152-1153. N. 1931. no.422.

Rev. Path. Vég. & Entom. Agr. (Paris)

Chabrolin, C.
Importance économique des maladies parasitaires des cultures arbustives en Tunisie. Rev. Path. Vég. & Entom. Agr. 18: 259-264. Jl.1931(Rec'd D.) no.7.

Gard, M.
A propos du Spumaria alba D.C. Rev. Path. Vég. & Entom. Agr. 18: 255-258. Jl.1931(Rec'd D.) no. 7.

Noury, E. M.
Un parasite des fraisiers cultivés. Rev. Path. Vég. & Entom. Agr. 18: 241-242. Jl.1931(Rec'd D.) no.7.
Aphelenchus fragaria.

Viennot, G.
Un mode particulier d'attaque de Cystopus candidus (Pers.) Rev. Path. Vég. & Entom. Agr. 18: 239. Jl.1931(Rec'd D.) no.7.
On Raphanus sativus.

Rhodora (Boston)

Fernald, M. L. & Weatherby, C. A.
Some new plants from the Gaspé Peninsula. Rhodora 34: 231-240. illus. D.1931. no.396.
Carex clivicola, Astragalins scrupulicola, n. spp., Saxifraga cernua latibracteata, Rubus idaeus encyclus, n.var.

Raup, H. M.
Salix glauca L. and its allies in the Athabasca-Great Slave Lake region. Rhodora 33: 241-244. illus. D.1931. no.396.

Schrift. Naturw. Ver. Schleswig-Holst.

Beyle, M.
Verzeichnis der fossilen und subfossilen blütenpflanzen Schleswig-Holstein und ihrer fundorte. Schrift. Naturw. Ver. Schleswig-Holst. 19: 176-203. 1931. no.2.

Koppe, F.
Weitere beiträge zur moosflora von Schleswig-Holstein. Schrift. Naturw. Ver. Schleswig-Holst. 19: 133-175. 1931. no.2.

Schweiz. Obst.-u. Gartenb. Zeit. (Münsingen)
Miethe, E.
Fleischfressende pflanze und ihre pflege. IX. Schweiz. Obst- u. Gartenb. Zeit. 1931: 364-365. illus. D.1, 1931. no.23.

Science (Lancaster, Pa.)
Jacot, A. P.
Tree Twist. Science 74: 567. D.4, 1931. no.1927.

Metcalf, M. M.
Treatment for poisoning by poison ivy. Science 74: 632-633. D.18, no.1929.

Sideris, C. P.
The classification of Pythium. Science 74: 597. D.11, 1931. no.1928.

Science News Letter.
Cheesecloth saving rare plant on rim of Hawaiian volcano. Science News Letter 20: 388. D.19, 1931.
Argyroxiphium macrocephalum (Haleakala silversword)
Cheesecloth used as covering to protect plants from insect enemies.

Scient. Agr. (Ottawa)
Barnes, S.
Economic aspects of drought resistance. Scient. Agr. 12: 206-208. D.1931. no.4.

Huskins, C. L.
Blindness or blast of oats. Scient. Agr. 12: 190-199. D.1931. no.4.

Welsh, J. N.
The inheritance of stem rust and smut reaction and lemma colour in oats. Scient. Agr. 12: 209-242. D.1931. no.4.

Seed World (Chicago)
Hillman, F. H.
Weed seeds in crop seeds aid in origin determination. Seed World 30(11): 16-17. port. D.11, 1931.

Soil Sci. (Baltimore)

McKinley, A. D.
Effects of sorghum plants on biological activities in the soil. Soil Sci. 32: 469-480. D.1931. no.6.

Porges, N.
The longevity of legume bacteria on seed, as influenced by plant sap. Soil Sci. 32: 481-487. D.1931. no.6.

So. Afr. Fruit Grow. (Cape Town)

Blatt, R. J.
The latest development in avocado growing. So. Afr. Fruit Grow. 18: 199-203. illus. O.1931. no.10.

So. African Gard.(Johannesburg)

Transvaal veld flowers. So. African Gard. 21: 337. illus. N.1931. no.11.
Asparagus cooperi.

Succulenta (Leeuwarden)

Tischer, A.
Conophytum, N.E.Br. Nieuwe soorten, nieuwe vindplaatsen, bloemen. Succulenta 13: 243-246. illus. D.1931. no.12.

Svensk. Bot. Tidskr.

Ahlner, S.
Usnea longissima Ach. i Skandinavien, med en översikt av dess europeiska utbredning. Svensk. Bot. Tidsskr. 25: 395-416. illus. 1931. no.3.

Du Rietz, G. E.
Thore C.E. Fries, 2/11,1886 - 31/12,1930. Svensk. Bot. Tidskr. 25: 442-451. port. 1931. no.3.

Eskanson, J. W.
Nya floristiska uppgifter från Lidingö. Svensk. Bot. Tidskr. 25: 417-434. 1931. no.3.

Litschauer, V.
Gloeocystidium sernanderi Litsch. eine neue schwedische corticee. Bot. Tidskr. 25: 435-437. illus. 1931. no.3.

Skärman, J. A. O.
Kinnekulles kärlväxtflora. Svensk. Bot. Tidskr. 25: 293-394. illus. 1931. no.3.

Svenska Betes- o. Vallför. Årsskr. (Uppsala)

Schröter, C.

Markkarakteriserande växarter. Förklarande och kompletterande anmärkningar till en schweizisk utställning av vissa huvudtyper. Svenska Betes- o. Vallför. Årsskr. 13: 175-193. 1931.

Tasmanian Journ. Agr.

Dowson, W. J.

The die-back disease of apricots. Tasmanian Journ. Agr. n.s., 2: 165-166. N.1, 1931. no.4.

Nectria cinnabarina.

Dowson, W. J.

The prevention of the late or Irish blight of potatoes. Tasmanian Journ. Agr. n.s.,2: 211-214. N.1, 1931. no.4.

Nicholls, H. M.

The life history of the black spot fungus. Tasmanian Journ. Agr. n.s.,2: 187-193. illus. N.1, 1931. no.4.

Thomas, P. H.

Apple varieties raised in Tasmania. I. Tasma (Democrat). Tasmanian Journ. Agr. n.s.,2: 171-174. illus. N.1, 1931. no.4.

Trans. Linn. Soc. Zool.

Summerhayes, V. S.

An eumeration of the angiosperms of the Seychelles Archipelago. Trans. Linn. Soc. Zool. 19: 261-299. tab.ii. Ag. 1931. no.2.

Willis, J. C. & Gardiner, J. S.

Flora of the Chagos Archipelago. Trans. Linn. Soc. Zool. 19: 301-306. Ag.1931. no.2.

Trans. Roy. Soc. Canada.

Fraser, W. P.

Additions to the Uredinales of the prarie provinces. Trans. Roy. Soc. Canada III,25(V): 85-92. My.1931. (Rec'd D.)

Tropenpfl. (Berlin)
Grieder, A.
Beitrag zur kenntnis der brasilianischen futtergräser. Tropenpfl. 34: 450-464. N.1931. no.11.

Trop. Agriculture West Indies.(Trinidad)
Ashby, S. F.
Gloeosporium strains. Notes on thirty-two isolations of Gloeosporium from bananas in Trinidad. Trop. Agriculture West Indies 8: 322-325. illus. pl.viii. D.1931. no.12.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-Breed.) (Leningrad)
Aleksandrov, V. G. & Chakhnashvili, N.D.
O sostoianii yst'its na list'iakh vinogradnykh loz Kakheitii v techenie perioda razvitiia i sozrevaniia vinograda (On the condition of the stomata on the leaves of Kakhetian grape-vines, during the development and maturation of the grapes). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(1): 302-318. 4 pl. 1930(Rec'd D.1931)
Russian with English summary.

Bystrikov, F. V.
K voprosu o vliianii reaktsii pochv na morozostoikost ozimykh rzhi i pshenitsy (On the influence of soil reaction on frost resistance of winter rye and winter wheat). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25: 129-151. illus. 1931. no.3.
Russian with English summary.

Czerniakowske, E. G.
Khorasan i Seistan. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 23(5): 3-271. illus. (incl. map) 1931.
Russian.
Botanical-agronomical report on eastern Persia.

Ditmer, E. E.
K voprosu o proiskhozhdenii kul'turnykh fasolei (A contribution to the question of the origin of cultivated beans). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 23(5): 309-406. illus. (incl.maps). 1931.
Russian.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-Breed.) (cont.)

Ermakov, A. I.
Pervye stadii propastaniia semian maslichnykh rastenii (The first stages of seed germination in oleiferous plants). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(1): 135-173. 1931.
Russian with English summary.

Fedchenko, B. A.
Krasivotsvetushchie rasteniia Srednei Azii (Ornamental plants of Asia Media). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 23(5): 273-308. 1931.
Russian.

Ivanov, N. N., Prokoshev, S. M. & Gabun'ia, M. K.
Biockimicheskie izmeneniia v plodakh pod vliianiem etilena (Biochemical changes in fruits under the influence of ethylene). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25 (1): 223-278. 1931.
Russian with English summary.

Ivanov, N. N. & Lavrova, M. N.
O kolebaniiakh v soderzhanii alkaloidov u liupina (On the fluctuations in the alkaloid contents of the lupine). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(1): 291-303. 1931.
Russian with English summary.
L. angustifolius, L.luteus.

Krasnosel'skaja-Maksimova, Tatina A.
Opyt fiziologicheskogo analiza zakhvata pri pomotsi iskusstvennogo sukhoveia (Physiological analysis of windburn by means of artificial dry wind). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 3-44. illus. 1931. no.3.
Russian with English summary.
Experiments with barley, oats & wheat.

Krasovskaja, I. V.
K voprosu o sorevnovanii pervichnykh i vtorichnykh kul'tur v sovmestnykh posevakh (The competition of primary and secondary crops in mixed cultures). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 273-323. illus. 1931.
Russian with English summary.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-Breed.) (cont.)

Kudriavtseva, M. A.
Prevratsenie salharov u mandarinov v protsesse sozrevaniia i lezhki (The transformation of sugars in mandarines during the process of ripening and in storage). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(1): 305-328. 1931.
Russian with English summary.

Lebedintseva, E. V., Borodina, I.N. & Brovtsyna, V.L.
Ispytanie morozoustoichivosti ozimykh kul'tur laboratornymi metodami (Testing the frost resistance of winter crops). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 324-350. 1931.
Russian with English summary.

Lishkevich, M. I.
Otsenka kachestva semian po soderzhaniiu v nikh fermentov (Estimation of the quality of seeds from their enzyme content). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(1): 103-133. 1931.
Russian with English summary.
Seeds of barley, wheat, peas, soybeans and oleiferous plants.

Maksimov, N. A.
Riziologicheskoe znachenie kseromorfnoi struktyru (Physiological significance of xeromorphic structure). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 152-162. 1931. no.3.
Russian with English summary.

Maslova, K. S.
Izmenchivost okraski kolosa pshenitsy po dannym geografichenskikh opytov za 1923-1927 g.g. (Variation of the ear colour in wheat according to geographical experiments of 1923-1927). Trudy Prikl. Bot. Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 24(2): 19-42. illus. (incl. maps) 1931.
Russian with English summary.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-Breed.) (cont.)

Popov, M. G.
Mezhdu Mongoliei i Iranom (Between Mongolia and Iran) Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 26(3): 45-84. illus. 1931.
Russian with English summary.
The main botanico-geographical features of Sinkiang, the westernmost province of China...

Segreev, L. V.
Nakhozhdenie ioda v plodakh Feijoa selloviana Berg. (The occurrence of iodine in the fruits of Feujoa selloviana Berg.) Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(1): 279-289. 1931.
Russian with English summary.

Sinskaja, E.N. & Bestuzheva, A.A.
Formy ryzhika (Camelina sativa) v ikh otnoshenii k klimatu, l'nu i cheloveku (The forms of Camelina sativa in connection with climate, flax and man). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(2): 98-200. illus. (incl. maps), tables. 1931.
Russian with English summary.

Sinskaja, E.N.
K poznaniiu vidov v ikh dinamike i vzaimootnosheniiakh s rastetel'nykh pokrovom (The study of species in their dynamics and interrelation with different types of vegetation). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(2): 1-97. 1931.
Russian with English summary.

Smirnova, M. I.
Biokhimicheskoe izuchenie zeren kukuruzy (Biochemical study of maize grains). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen & plant-breed.) 25(1): 328-437. 1931.
Russian with English summary.

Skvortsov, S. S.
K voprosu o vliianii sukhoveia na assimiliatsiiu rastenii (On the influence of desiccating winds on photosynthesis). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 45-68. 1931.
Russian with English summary.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-Breed. (cont.)

Tumanov, I. I.
Zakalivanie ozimykh rastenii k nizkum temperaturam (The hardening of winter plants to low temperature). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 69-109. illus. 1931. no.3.
Russian with English summary.

Vasil'ev, I. M.
Vodnoe khoziaistvo rastenii peschanoi pustyni iugo-vostochnye Kara-Kumy (The water relations of plants of the sand desert south-eastern Kara-Kum). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 25(3): 185-272. illus. 1931. no.3.
Russian with English summary.

Vavilov, N. I.
Linneevskii vid kak sistema (The Linnean species as a system) Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 26(3): 109-134. 1931.
Russian.

Vavilov, N. I.
Meksika i Tsentral'naia Amerika, kak osnovnoi tsentr proiskhozhdeniia kul'turnykh rastenii Novogo Sveta (Mexico and Central America as the principal centre of origin of cultivated plants of the New World). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 26(3): 135-199. illus. (incl. maps) 1931.
Russian with English summary.

Vavilov, N. I.
Rol Tsentral'noi Azii v Proiskhozhdenii kul'turnykh rastenii (The role of Central Asia in the origin of cultivated plants). Trudy Prikl. Bot. Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 26(3): 3-44. illus. 2 maps. 1931.
Russian with English summary.

Zherebina, Z. I.
Opyt botaniko-agronomicheskogo izucheniia kostra bezostogo (Bromus inermis Leyss.) (Essay of botanical-agronomical study of awnless brome grass). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) 25(2): 201-350. illus. 1931.
Russian with English summary.

U. S. Dept. Agr. Techn. Bull.
Shear. C. L., Stevens, N.E. & Bain, H.F.
Fungous diseases of the cultivated cranberry. U. S. Dept. Agr. Techn. Bull. 258. 56 p. illus. 4 pl. on 3, 2 col. O.1931.

Verh. K. Akad. Wetensch. Amsterdam. 2. sect.
Blaauw, A. H.
Orgaanvorming en periodiciteit van Hippeastrum hybridum. Verh. K. Akad. Wetensch. Amsterdam. Afd. Naturk. (2.sect.) 29: 1-90. illus., 6 pl. (5 fold.) 1931.
English summary: p.75-87.

Vytauto Didz. Univ. Mat.-Gamt. Fak. Darb. (Mém. Fac. Sci. Univ. Vytautas le Grand.) (Kaunas)
Minkevičius, A.
Pradmenys Lietuvos samanu florai tirti (Beiträge zur moosflora Litauens). Vytauto Didz. Univ. Mat-Gamt. Fak. Darb.(Mém. Fac. Sci. Univ. Vytautas le Grand) 5: 290-325. 1931. no.2.
Lithuanian and German.

Regel, K.
Fontes florae Lituanae (Lietuvos floros šaltiniai) Vytauto Didz. Univ. Mat.-Gamt. Fak. Darb. (Mém. Fac. Sci. Univ. Vytautas le Grand) 5: 221-289. 1931. no.2.

Regel, K.
Medžiaga Lietuvós florai pažinti (Die vegetationsverhältnisse an der Meteliai seengruppe). Vytauto Didz. Univ. Mat.-Gamt. Fak. Darb. (Mém. Fac. Sci. Univ. Vytautas le Grand) 5: 326-367. 1931. no.2.
Lithuanian and German.

Zeitschr. Indukt. Abstamm. u. Vererbungsl. (Leipsiz)
Beatus, R.
Zur kenntnis der selbststerilität von Cardamine pratensis. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 285-343. illus. 1931. no.4.

Shartevant, A. H. & Emerson, S.
Genetic and cytological studies on Oenothera I-III. Zeitschr. Indukt. Abstamm. u. Vererbungsl. 59: 365-380, 381-394, 395-419. illus., pl.vii-x. 1931. no.4.
I. Nobsa, oakesiana, ostreae, shulliana and the inheritance of old-gold flower-color. II. Certain crosses involving Oe. rubricalyx and Oe. franciscana sulfurea. III. The translocation interpretation.

Zeitschr. Zücht. A. Pflanzenzücht. (Berlin)

Babcock, E. B.
New interspecific hybrids in Crepis. Zeitschr. Zücht. A. Pflanzenzücht. 17: 116-117. N.1931. no.1/2.

Berg, K. H. von
Autosyndese in Aegilips triuncialis L. x Secale cereale L. Zeitschr. Zücht. A. Pflanzenzücht. 17: 55-69. illus. N.1931. no.1/2.

Bleier, H.
Euber vererbung von gattungsbastarden des roggens (Aegilips-roggen und Aegilops-roggenweizenbastarde). Zeitschr. Zücht. A. Pflanzenzücht. 17: 70-79. illus. N.1931. no.1/2.

Brink, R. A.
The improvement of meadow plants. Zeitschr. Zücht. A. Pflanzenzücht. 17: 93-107. illus. N.1931. no.1/2.

Clausen, E.
Inheritance in Nicotiana tabacum. XII. Transmission features of carmine-coral variegation. Zeitschr. Zücht. A. Pflanzenzücht. 17: 108-115. illus. N.1931. no.1/2.

Feichtinger, E. K.
Die entwicklung und die praktische tätigkeit der lehrkanzel für pflanzenzüchtung an der Hochschule für bodenkultur in Wien und der Pflanzenzuchtstation in Gross-Enzersdorf. Zeitschr. Zücht. A. Pflanzenzücht. 17: 1-7. N.1931. no.1/2.

Frimmel, F.
Die genetischen grundlagen für die farbenzüchtung der gartenprimel. Zeitschr. Zücht. A. Pflanzenzücht. 17: 173-185. illus. N.1931. no.1/2.

Kappert, H.
Abweichende spaltungsergebnisse in der vererbung der blütenfüllung zweier levkojen-sippen. Zeitschr. Zücht. A. Pflanzenzücht. 17: 147-156. N.1931. no.1/2.

Zeitschr. Züchtg. A. Pflanzenzücht. (cont.)

Lehmann, E.
Der anteil von kern und plasma an den reziproken verschiedenheiten von Epilobium-bastarden. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 157-172. illus. N.1931. no.1/2.

Munerati, O.
L'eredità della tendenza alla annualità nella comune barbabietola coltivata. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 84-89. illus. N.1931. no.1/2.

Pøllew, C.
Note on irregular gametic series in Pisum sativum. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 90-92. N. 1931. no.1/2.

Roemer, T.
Ueber die reichweite des pollens beim roggen. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 14-35. illus. N.1931. no.1/2.

Saunders, E. R.
A study of the relations of the single and double forms of Lobelia erinus L. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 136-146. N.1931. no.1/2.

Schiemann, E.
Pfahlbauweizen - historisches und phylogenetisches. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 36-54. illus. N.1931. no.1/2.

Todaro, F.
La survivance de la racine embryonnaire dans le blé. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 80-83. N.1931. no.1/2.

Winge, O.
The inheritance of double flowers and other characters in Matthiola. Zeitschr. Züchtg. A. Pflanzenzücht. 17: 128-135. illus. N.1931. no.1/2.

Der Züchter. (Berlin)

Boonstra, A.E.H.R.
Pflanzenzüchtung und pflanzenphysiologie.
Der Züchter 3: 345-352. illus. N.1931. no.11.

Buchinger, A.
Ein roggen-weizen- und weizen-roggen-bastard.
Der Züchter 3: 329-333. illus. N.1931. no.11.

Gleisberg, W.
Klonselektion bei Erica gracilis in den sächsischen spezial-erikenbetrieben. Der. Züchter 3: 339-345. illus. N.1931. no.11.

Tavčar, A.
Einige neue kreuzungsprodukte decussierter maispflanzen. Der Züchter 3: 333-338. illus. N.1931. no.11.

Exper. Stat. Publ.

Manns, T. F. & Adams, J. F.
[Report] Dept. of plant pathology. Ann. Rep. Delaware Agr. Exp. Stat. 1930/31(Its Bull.172): 42-50. N.1931.

Weber, G. F.
Bottom rot and related diseases of cabbage caused by Corticium vagum B. & C. Florida Agr. Exp. Stat. Bull. 242. 31 p. illus. N.1931(Rec'd D.)

Waltman, C. S.
Effect of hydrogen-ion concentration on the growth of strawberries in sand and soil. Kentucky Agr. Exp. Stat. Bull. 321: 333-352. illus. S.1931(Rec'd D.)

Werner, H. O.
The cause and prevention of mechanical injuries to potatoes. Nebraska Agr. Exp. Stat. Bull.260. 35 p. illus. Ag.1931(Rec'd N.)

Cathcart, C.S. & Willis, R. L.
Analyses of materials sold as insecticides and fungicides during 1931. New Jersey Agr. Exp. Stat. Bull. 530. 16 p. O.1931(Rec'd D.)

Exper. Stat. Publ. (cont.)

Tiedjens, V. A. & Robbins, W. R.
The use of ammonia and nitrate nitrogen by certain crop plants. New Jersey Agr. Exp. Stat. Bull. 526. 46 p. illus. S.1931(Rec'd D.)

New Books.

Bechhold, H.
Handlexikon der naturwissenschaften und medezin. 2. aufl. 2 v. Frankfurt, a.M., H. Bechhold, 1913-23.

Blakeslee, A. F. & Jarvis, C. D.
Trees in winter... abridged ed. N.Y., Macmillan, 1931.

Canada. Experimental farms - Div. of botany.
Report on the prevalence of plants diseases in the Dominion of Canada for the years 1927-28. 114 p. [1931]
Mimeographed; compiled by J.B. McCurry.
Forms 7th-8th reports.

Clute, W. N.
The common names of plants and their meanings. Indianapolis, W. N. Clute & Co., 1931.

Cox, E.H.M.
The gardener's chapbook. London, Chatto & Windus, 1931.

Faugeras, J.
Oranges, citrons, pamplemouses, leur culture et leur commerce en Floride en Californie. Paris, Dunod, 1931.

Grieve, Mrs. M.
A modern herbal. The medicinal, culinary, cosmetic and economic properties, cultivation and folk-lore of herbs, grasses, fungi, shrubs & trees, with all their modern scientific uses. 2. v. London, J. Cape, 1931.

Handwörterbuch der naturwissenschaften. 2. aufl.
hrsg. von R. Dittler [& others] v. 1.
Jena, G. Fischer, 1931.

New Books. (cont.)

Hänning, E. & Winker, H., eds.
Die pflanzenareale... 3. reihe, h.4. Markgraf, F. Gnetum, L. maps 31-40. Jena, G. Fischer, 1931.

Holder, J. T.
Elementary histological technique, for animal and plant tissues. London, J. & A. Churchill, 1931.

Holmberg, O. R.
Skandinaviens flora Ib, häfte. I. (Salix). Stockholm, P. A. Nordstedt, [1931]

Sanford, A. F.
Arboretum catalog and planting list, July 1, 1930. Knoxville, Tenn., 1930.

Silveira, A. A. de.
Floralia montium v.2. Notas botanicas, geologicas e geographicas. Bello Horizonte, Imprensa-official de Minas Geraes, 1931.

Reprints from Journals not yet rec'd or not available.

Dodoff, D. N.
Fiziologischesi rasi na kafiâvata ruzhda po pshenitsata (Puccinia triticina Erikss.) v Bulgariîa (Physiologic forms in the leaf rust of wheat (Puccinia triticina Erikss.) in Bulgaria). Reprinted from Zemledska Misal v.2, no.2. 1931. 34 p. illus.

Correction.

V. 13, no.23, p.28.
Under Queensland, Agr. Journ. the vol. no. should be 36, the no. 4.

BOTANY
CURRENT LITERATURE

ADDITIONS TO THE BOTANICAL CATALOGUE, BUREAU OF PLANT INDUSTRY,
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★ JAN 14 1932 ★
U. S. Department of Agriculture

Vol. 13, no. 26. Dec.21,1931-Ja.2,1932.

Amer. Potato Journ.

Babbitt, D. M.
Seed potato treatment on a large scale.
Amer. Potato Journ. 8: 271-272. D.1931. no.12.

Ann. Missouri Bot. Gard. (St. Louis)

Beardsley, M. L.
The cytology of Funaria flavicans Michx. with special reference to fertilization. Ann. Missouri Bot. Gard. 18: 509-536. pl.41-45. N.1931. no.4.

Berkley, E. E.
Studies of the effects of different lengths of day, with variations in temperature, on vegetative growth and reproduction in cotton. Ann. Missouri Bot. Gard. 18: 573-601. pl.46-47. N. 1931. no.4.

Bucholtz, A. F.
The effect of monochromatic ultra-violet light of measured intensities on behavior of plant cells. Ann. Missouri Bot. Gard. 18: 488-508. pl.42. N.1931. no.4.
Preliminary report.

Woodson, R. E. jr.
New or otherwise noteworthy Apocynaceae of tropical America. Ann. Missouri Bot. Gard. 18: 541-556. N.1931. no.4.

Woodson, R. E. jr.
New South American Asclepiadaceae. Ann. Missouri Bot. Gard. 18: 557-563. N.1931. no.4.
Blepharodon minimus, Stenphanotella killipii, Macroscepis equatorialis, Phaeostemma tigrina, Exolobus marmoreus, Marsdenia lauretiana, n.spp.

Wynd, F. L. & Fuller, H. J.
Some effects of ultra-violet radiation upon the calcium and phosphorus content of higher plants. Ann. Missouri Bot. Gard. 18:565-572. N.1931. no.4.

Arch. Bot. Sist., Fitogeogr. e Gen. (Forli)

Béguinot, A.
Aggiunte alla flora Padovana (cont.) Arch. Bot. Sist. Fitogeogr. e Gen. 7: 324-329. D.1931. no.3/4.

Béguinot, A.
Appunti fitogeografici su alcuni laghi della regione del Garda e del Trentino occidentale. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 296-323. pl.v-vii. D. 1931. no.3/4.

Béguinot, A.
Osservazioni critiche sullo Scirpus globiferus L. f. e sulla sua area di distribuzione. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 330-339. D.1931. no.3/4.

Guadagno, M.
Flora capraearum nova flora di Capri. (cont.) Arch. Bot. Sist. Fitogeogr. e Gen. 7: 244-275. D. 1931. no.3/4.

Negodi, G.
Lineamenti sulla distribuzione dei sessi (genodianomea) nelle piante superiori e sulle cause genetiche determinanti. 2. Le situazioni genetiche dei tipi distributivi. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 193-234. D.1931. no.3/4.

Pampanini, R.
Le variazioni dell'Helianthemum tunetanum Coss. et Kral. in Tripolitania e i suoi rapporti con l' Helianthemum piliferum Boiss. della Spagna meridionale. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 235-243. D. 1931. no.3/4.

Sbarbaro, C.
Contributo alla flora lichenologica Ligure. Arch. Bot. Sist. Fitogeogr. e Gen. 7: 276-295. D. 1931. no.3/4.

Arch. Pharm. & Ber. Deut. Pharm. Ges. (Berlin)

Ehrenstein, M.
Zur kenntnis der alkaloide des tabaks. Arch. Pharm. & Ber. Deut. Pharm. Ges. 269: 627-659. pl.i-ii, diagr. D.1931. no.9.

Arch. Pharm. & Ber. Deut. Pharm. Ges. (cont.)
Feist, K. & Awe, W.
Ueber berberrubin, palmatrubin und ähnliche verbindungen. (Zugleich 4. mitteilung über die alkaloide der kolumbowurzel). Arch. Pharm. & Ber. Deut. Pharm. Ges. 269: 660-678. diagr. D. 1931. no.9.

Arch. Rubbercult. Nederl.-Indië. (Batavia, Java)
Bobilioff, W.
Anatomisch onderzoek bij de topinstervingen van jonge Hevea-uitloopers. (An anatomical investigation of the dying-off of the tops of young shoots of Hevea- budgraftings). Arch. Rubbercult. Nederl.-Indie. 15: 627-635. illus. O.1931. no.10.
English summary: p.633-635.
Non-parasitic.

Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. (Rome)
Curzi, M.
Una nuova specie di "Helminthosporium" in una malattia del banano segnalata nella Somalia Italiana. Atti R. Accad. Naz. Lincei VI, Rend. Cl. Sci. Fis., Mat. e Nat. 14: 146-149. illus. 1931. no.3/4.
H. gibberosporum.

Better Crops (N.Y.)
Alexander, A. S.
The inquiring mind and the seeing eye. Better Crops 17(5): 12-15, 53-54. port. D.1931.
Biographical notes about Dr. William Penn Brooks, Emeritus professor of agriculture of the Mass. Agr. Exp. Stat.

Biochem. Journ. (London)
Buston, H. W. & Pramanik, B. N.
The accessory factor necessary for the growth of Nematospora gossypii. I-II. Biochem. Journ. 25: 1656-1670, 1671-1673. 1931. no.5.
I. The chemical nature of the accessory factor. II. The relation of the accessory factor to "bios".

Grove, K. E. & Robinson, R.
An anthocyanin of Oxycoccus macrocarpus Pers. Biochem.Journ. 25: 1706-1711. 1931. no.5.

Biochem. Journ. (cont.)

Haas, P. & Hill, T. G.
The occurrence of sugar alcohols in marine algae. Dulcitol. Biochem. Journ. 25: 1470-1471. 1931. no.5.

Haas, P. & Hill, T. G.
A preliminary note on the nitrogen metabolism of seaweeds. Glutamic acid peptide. Biochem. Journ. 25: 1472-1475. 1931. no.5.

Richards, E. H. & Norman, A. G.
The biological decomposition of plant materials V. Some factors determining the quantity of nitrogen immobilised during decomposition. VI. The effect of hydrogen ion concentration on the rate of immobilisation of nitrogen by straw. Biochem. Journ. 25: 1767-1778, 1779-1787. 1931. no.5.

Robinson, G. M. & Robinson, R.
A survey of anthocyanins. I- Biochem.Journ. 25: 1687-1705. 1931. no.5.

Bol. R. Soc Españ.Hist. Nat. (Madrid)

Bustinza, F.
Sobre los fermentos del sterigmatocystis acinae uvae Caballero - Aspergillus carbonarius (Bainier) Thom. Bol. R. Soc. Españ. Hist. Nat. 31: 521-527. Ag.1931. no.7.

Martínez Martinez, M.
Contribución al estudio de las Digitales. IV. nota. Bol. R. Soc. Españ. Hist. Nat. 31: 509-520. illus. Ag.1931. no. 7.

Bot. Gaz. (Chicago)

Bonazzi, A.
Studies in sugar cane physiology. II. Sugar cane gases. Bot. Gaz. 92: 442-445. illus. D.1931. no.4.

Gildehaus, E. J.
The relation of nitrogen to potassium in the nutrition of fruit trees. Bot. Gaz. 92: 384-395. D.1931. no.4.

Bot. Gaz. (Cont.)

Gore, U. R. & Taubenhaus, J. J.
Anatomy of normal and acid-injured cotton roots. Bot. Gaz. 92: 436-441. illus. D. 1931. no.4.

Gourley, J. H.
Anatomy of the transition region of Pisum sativum. Bot. Gaz. 92: 367-383. illus. D.1931. no.4.

Hoar, C. S.
Meiosis in Hypericum punctatum. Bot. Gaz. 92: 396-406. pl. iii-iv. D. 1931. no.4.

Marco, H. F.
Needle structure as an aid in distinguishing Colorado blue spruce from Engelmann spruce. Bot. Gaz. 92: 446-449. illus. D.1931. no.4.

Sherff, E. E.
A new species of Bidens from Africa. Bot. Gaz. 92: 450-451. D.1931. no.4.
B. praecox.

Shull, C. A. & Lemon, H. B.
Penetration of seed coats by ultra-violet radiation. Bot. Gaz. 92: 420-429. pl.v-vi. D.1931. no.4.

Taubenhaus, J.J. & Ezekiel, W. N.
Acid injury of cotton roots. Bot. Gaz. 92: 430-435. illus. D. 1931. no.4.
Extreme soil acidity, resulting from excessive application of sulphur.

Thiel, A. F.
Anatomy of the primary axis of Solanum melongena. Bot. Gaz. 92: 407-419. illus. D.1931. no.4.

Wolfe, H. S.
Effect of ethylene on the ripening of bananas. Bot. Gaz. 92: 337-366. illus. D.1931. no.4.

Brotéria Sér. Bot. (Lisboa)

Luisier, A.
Les mousses de l'Archipel de Madère et en géneral des Iles Atlantiques (suite). Broteria Sér. Bot. 25: 123-139. N.1, 1931. no.3.

Pau, C.
Observaciones e indicaciones de algunas especies. Brótéria Sér. Bot. 25:140-144. N.1, 1931. no.3.

Rick, J.
Monographia pezizinearum riograndensium (cont.) Brotéria Sér. Bot. 25: 99-122. N.1, 1931. no.3.

Bull. Agence Gén. Colon. France. (Paris)

Heim de Balsac, F., Wahl, A. & Heim de Balsac, H.
Les cachous et l'intérêt actuel de leur production. Bull. Agence Gén. Colon. France 24: 1431-1439. N.1931. no.272.

Bull. Bi-Mens. Soc. Linn. Lyon.

Barbier, M.
Quelques observations sommaires sur la coloration de certains champignons sous l'action des réactifs chimiques (vitriol vert...). Bull. Bi-Mens. Soc. Linn. Lyon. 10: 39-40. Mr.8, 1931. no.5.

Brebinaud, P.
Les Verpa. Bull. Bi-Mens. Soc. Linn. Lyon 10: 108-109. S.20, 1931. no.14.

Choisy, M.
Où en est la lichénologie? Bull. Bi-Mens. Soc.Linn. Lyon. 10: 83-85. Je.7, 1931. no.11.

Josserand, M. & Konrad, P.
Note sur deux "Collybia" du groupe "clusilis". Une espèce nouvelle: C. pseudo-clusilis. Bull. Bi-Mens. Soc. Linn. Lyon 10: 19-23. F.8, 1931. no.3.

Josserand, M. & Maire, R.
Sur l' Omphalia marginella (Pers.) Joss. et Maire (Omphalina marginella Quélet). Bull. Bi-Mens. Soc. Lin. Lyon 10: 115-118. illus. O.4, 1931. no.15.

Bull. Bi-Mens. Soc. Linn. Lyon. (cont.)

Kuhner, R.
Utilisation de la réaction iodée dans la classification des Mycena. Bull. Bi-Mens. Soc. Linn. Lyon 10: 122-127. O.25, 1931. no.16.

Laurent, A.
Observations sur l'accroissement en longueur des rameaux dans les espèces du g. Galium et des g. voisins. Bull. Bi-Mens. Soc. Linn. Lyon 10: 59-60. Ap.26, 1931. no. 8.

Vladesco, A.
Observations sur le développement de Scolopendrium vulgare Sm. Bull. Bi-Mens. Soc. Linn. Lyon 10: 28-29. F.22, 1931. no.4.

Vladesco, A.
La théorie du primitive spindle de F.O. Bower, Bull. Bi-Mens. Soc. Linn. Lyon 10: 68-70. My.10, 1931. no. 9.

Bull. Dept. Agr. Kenya (Nairobi)

Beckley, V. A.
Essential oils. The methods of production and their possibilities in Kenya Colony. Bull. Dept. Agr. Kenya no.19. 25 p. 1 pl. 1931.

Bull. Écon. Indochine. Sect.B.

Barat, H.
Laboratoire de cryptogamie. In Renseignements techniques d'Indochine. Bull. Écon. Indochine. Sect. B, 34: 779-796. S.1931.

Bull. Fan Mem. Inst. Biol.

Tang, T.
Account of a botanical tour in Shansi. Bull. Fan Mem. Inst. Biol. 2: 45-60. Ap.20, 1931(Rec'd D.). no.4.

Tang, T.
Notes on ligneous plants of Hopei. Bull. Fan. Mem. Inst. Biol. 2: 99-103. My.26, 1931(rec'd D.) no.7.

Bull. Min. Agr. Gt. Brit.
Gt. Britain. Ministry of agriculture and fisheries.
Mushroom-growing. Its Bull. no.34. 26 p. 8 pl. on 4. 1931.

Bull. Soc. Mycol. France. (Paris)
Konrad, P.
Notes critiques sur quelques champignons du Jura. (cont.) Bull. Soc. Mycol. France 47: 129-148. N.1, 1931. no.2.

Maury,
Florule cryptogamique de la champagne crayeuse (myxomycètes, siphomycètes, urédinées et ustilaginées). Bull. Soc. Mycol. France 47: 156-199. N.1, 1931. no.2.

Rayss, T.
Contribution à la connaissance des micromycètes aux environs de Besse (Puy-de-Dôme). Bull. Soc. Mycol. France 47: 200-220. illus. N.1, 1931. no.2.

Sauger, M.
Sur les difficultés de la classification des champignons. Bull. Soc. Mycol. France 47: 225-227. N.1, 1931. no.2.

Zvara, J.
A propos de Russula chameleontina Fries. Bull. Soc. Mycol. France 47: 149-156. col.pl. v-vi. N.1, 1931. no.2.

Bull. Torr. Club.
Gleason, H. A. & others.
Botanical results of the Tyler-Duida expedition (cont.) Bull. Torr. Club 58: 405-464, 465-506. illus., pl.34-45. O., N. 1931. no.7, 8.

Bull. U. S. Golf Assoc. Green Sect. (Washington, D.C.)
Kellerman, K. F.
Russell A. Oakley. Bull. U. S. Golf Assoc. Green Sect. 11:175. port. S.1931. no.9.

Cactus & Succ. Journ. (Los Angeles)

Baxter, E. M.
California cacti. (cont.) mojavensis - Mojave Desert prickly pear. Cactus & Succ. Journ. 3: 101-102. D.1931. no.6.

Frick, G. A.
Euphorbia polycephala. Cactus & Succ. Journ. 3: 97-98. illus. D.1931. no.6.

Labarre, E. J.
Monstrosities in Mesembryanthema. Cactus & Succ. Journ. 3: 106. 1 pl. D.1931. no.6.

White, A. & Sloane, B. L.
The Stapelieae. 4. Caralluma. Cactus & Succ. Journ. 3: 103-105. illus. D.1931. no.6.

Wiggins, I. L.
A giant specimen of Pachycerus pringlei from lower California. Cactus & Succ. Journ. 3: 95-96. illus. D.1931. no.6.

Compt. Rend. Acad. Sci. Paris.

Blaringhem, L., Bridel, M. & Bourdouil, Mlle. C.
Sur la dominance du caractère amylacé dans les hybrides de première génération de deux variétes de pois (Pisum sativum L.) Compt. Rend. Acad. Sci. Paris 193: 1135-1137. D.7, 1931. no.23.

Simonet, M.
Etude génétique et cytologique de l'hybride Iris pallida Lamk. x Iris tectorum Maxim. Compt. Rend. Acad. Sci. Paris 193: 1214-1216. D.7, 1931. no.23.

Compt. Rend. Soc. Biol. Paris.

Dufrenoy, J.
Sur les facteurs écologiques du développement du Plasmopara viticola. Compt. Rend. Soc. Biol. Paris 108: 967-970. D.11, 1931. no.36.

Marinesco, N.
L'action diathermique d'un champ de haute Compt. Rend. Soc. Biol. Paris 108: 950-952. D.11, 1931. no.36.

Compt. Rend. Soc. Biol. Paris. (cont.)

Moreau, F. & Moruzi, Mlle. C.
Sur l'identification des sexes des races et -- des ascomycètes hétérothalliques. Compt. Rend. Soc. Biol. Paris 108: 861-962. D.4, 1931. no.36.
Neurospora.

Gard. Chron. (London)

Darlington, C. D.
The bearing of chromosome studies on plant breeding. (concl.) Gard. Chron. III, 90: 447-448, 461-463. D.12,19, 1931. no.2346-2347.

Friend, H.
Horticulture in relation to commerce. XX. Cut flowers and bulbs. Gard. Chron. III, 90: 460-461. D.19, 1931. no.2347.

Redgrove, H. S.
Some notes on saffron. Gard. Chron. III, 90: 444. D.12, 1931. no.2346.

Small, J.
Revelations of a pocket-lens. (concl.) Gard. Chron. III, 90: 443, 459. illus. D.12, 19, 1931. no.2346-2347.

Hilgardia (Berkeley,Cal.)

Leach, L. D.
Downy mildew of the beet, caused by Peronospora schachtii Fuckel. Hilgardia 6: 203-251. illus. N.1931. no.7.

Porter, D. R.
The infectious nature of potato calico. Hilgardia 6: 277-294. illus., col. pl. N.1931. (Rec'd D.) no.9.
Virus disease.

Severin, H. H. P.
Modes of curly-top transmission by the beet leafhopper, Eutettix tenellus (Baker). Hilgardia 6: 253-276. illus. N.1931. no.8.

Ital. Agr. (Milan)

Crescini, F.
Sulla durata della vitalità delle radici embrionali del grano e del mais. Ital. Agr. 68: 861-879. illus. N.1931. no.11.

Ital. Agr. (cont.)

Succi, A.
Note sull'albinismo del frumento. Ital. Agr. 68: 831-839. illus. tab. N.1931. no.11.

Journ. Agr. Res. (Washington, D. C.)

Eaton, F. M.
Root development as related to character of growth and fruitfulness of the cotton plant. Journ. Agr. Res. 43: 875-883. illus. N.15, 1931. no.10.

Rumbold, C. T.
Two blue-staining fungi associated with bark-beetle infestation of pines. Journ. Agr. Res. 43: 847-873. illus. N.15, 1931. no.10.
Ceratostomella ips (n.sp.), C.pini.

Smith, C. O.
Crown rot of Juglans in California. Journ. Agr. Res. 43: 885-904. illus. N.15, 1931. no.10.
Provisionally determined as Phytophthora cactorum.

Journ. Amer. Soc. Agron. (Geneva, N.Y.)

Stewart, G.
Inheritance in a wheat cross between Ridit and segregate of Federation X Sevier (14-85). Journ. Amer. Soc. Agron. 23: 964-976. illus. D.1931. no.12.

Journ. Bot. (London)

Dixon, H. N.
Ptychomitriopsis Dix., gen. nov. Ptychomitriacearum. Journ. Bot. 69:284-285. N.1931. no.827.

Dixon, H. N.
Two mosses from the Central Sahara. Journ. Bot. 69: 285-287. N.1931. no.827.
Funaria altissima, Bryum saharae.

Good, R. D'O.
Some evolutionary problems presented by certain members of the Compositae. Journ. Bot. 69: 299-305. illus. D.1931. no.828.

Lister, G.
New species of Mycetozoa from Japan. Journ. Bot. 69: 297-298. pl.598. D.1931. no.828.
Didymium ochroideum, Perichaena tesselata.

Journ. Bot. (cont.)

Norman, C.
New Trachymene from Timor. Journ. Bot. 69: 287-288. N.1931. no.827.
T. acerifolia n.sp.

Pugsley, H. W.
A new Juncus in Scotland. Journ. Bot. 69: 278-284. illus. N.1931. no.827.
Juncus marshallii.

Riddelsdell, H.J.
Field notes, chiefly 1930. Journ. Bot. 69: 309-313. D.1931. no.828.

Stapf, O.
Richard Wettstein. (1863-1931). Journ. Bot. 69: 313-315. D.1931. no.828.

Stephensen, T.
The flora of Algeria. Journ. Bot. 69: 305-309. D.1931. no.828.

Wolley-Dod, A. H.
A revision of the British roses. (concl.) Journ. Bot. 69: 89-96, 97-106. N., D. 1931. no.827, 828.

Journ. Hered. (Washington)

Imai, Y.
New mutant characters of the Japanese morning glory. Journ. Hered. 22: 361-366. illus., 1 pl. N.1931. no.11.

Mangelsdorf, P. C. & Reeves, R. G.
Hybridization of maize, Tripsacum, and Euchlaena. Journ. Hered. 22: 329-343. illus., 1 pl. fronts. N.1931. no.11.

Robinson, T. R.
A chimera in the poinsettia. Journ. Hered. 22: 359. illus. N.1931. no.11.

Journ. Indian Bot. Soc. (Madras)

Joshi, A. C.
Contributions to the anatomy of Chenopodiaceae and Amarantaceae II. Primary vascular system of Achyranthes aspera L., Cyathula prostrata Blume and Pupalia lappacea Juss. Journ. Indian Bot. Soc. 10: 265-292. 1 pl. O.1931. no.4.

Maheshwari, P.
Contribution to the morphology of Albizzia lebbek. Journ. Indian Bot. Soc. 10: 241-264. illus., pl. i-iii. O.1931. no.4.

Malhotra, R. C.
Changes in plants during low temperatures. I. Oil synthesis at various elevations of the Himalayas and its physiological influence on the protoplasm of Cedrus deodara. Journ. Indian. Bot. Soc. 10: 293-310. illus. O.1931. no.4.

Journ. Landw. (Berlin)

Grote, R.
Untersuchungen über einige fragen des wasserhaushalts von hafersorten. Journ. Landw. 79: 323-363. illus. 1931. no.4.

Journ. Maryland Acad. Sci. (Baltimore)

Plitt, C. C.
The ferns and fern allies found in the vicinity of Baltimore, Maryland. Journ. Maryland Acad. Sci. 2: 195-201. D.1931. no.3/4.

Journ. N.Y. Bot. Gard.

Coombs, S. V.
Color photography in the garden. Journ. N. Y. Bot. Gard. 32: 288-291. D.1931. no.384.

Small, J. K.
Vanishing Iris. Journ. N.Y. Bot. Gard. 32: 277-288. illus. D.1931. no.384.

Journ. Rubber Res. Inst. Malaya.

Corner, E. J. H.
The identity of the fungus causing wet-root rot of rubber trees in Malaya. Journ. Rubber Res. Inst. Malaya 3: 120-123. 2 pl. O.1931. no.2.
Ganoderma pseudoferreum.

Journ. Rubber Res. Inst. Malayan (cont.)

Napper, R. P. N.

A further note on the effects of fungicides on the viability of Hevea buds. Journ. Rubber Res. Inst. Malaya 3: 114-119. O.1931. no.2.

Journ. Soc. Trop. Agr. Japan. (Taiwan)

Kudo, Y.

Materials for a flora of Formosa. V. Journ. Soc. Trop. Agr. Japan 3: 225-227. O.1931. no.3.

Masamune, G.

Contribution to our knowledge of the flora of the southern part of Japan. VI. Journ. Soc. Trop. Agr. Japan 3: 246-247. O.1931. no.3.

Watanabe, S.

Physiological studies in the pineapple roots. Journ. Soc. Trop. Agr. Japan 3: 203-217. illus. O.1931. no.3.

In Japanese.

Yamamoto, Y.

Observations ad floram formosanam. I. Journ. Soc. Trop. Agr. Japan 3: 236-245. illus. O.1931. no.3.

Polypodium transpiananense, Selaginella tarokoensis, Calanthe sekoensis, Eria sawadas n.spp.

Journ. Washington Acad. Sci.

Drechsler, C.

A crown-rot of hollyhocks caused by Phytophthora megasperma n.sp. Journ. Washington Acad. Sci. 21: 513-526. illus. D.19, 1931. no.21.

Keng, Y. L.

The genus Chikusichloa of Japan and China. Journ. Washington Acad. Sci. 21: 526-530. illus. D.19, 1931. no.21.

C. Mutica n.sp.

Steiner, G.

Neotylenchus abulbosus n.g., n.sp. (Tylenchidae, Nematoda) the causal agent of a new nematosis of various crop plants. Journ. Washington Acad. Sci. 21: 536-540. illus. D.19, 1931. no.21.

Madras Agr. Journ.

Jogiraju, G.

Plantain varieties in the Circars. An alphabetical list of varieties found in Godavari, Vizagapatam and Ganjam districts. Madras Agr. Journ. 19: 478-482. N.1931. no.11.

Malayan Agr. Journ. (Kuala Lumpur)

Jagoe, R. B.

Hybridization of selected strains of padi. Malayan Agr. Journ. 19: 530-534. N.1931. no.11.

Möller's Deut. Gärtn.-Zeit. (Erfurt)

Hennis, W., jr.

Als orchideen-sampler in den urwäldern Kolumbiens (fortz.) Möller's Deut. Gärtn.-Zeit. 46: 427-428. illus. D.21, 1931. no.36.

Nature (London)

Whitehead, T.

Respiration of healthy and leaf roll potatoes. Nature 128: 967. D.5, 1931. no.3240

Nederl. Tijdschr. Hyg. Microbiol. en Serol. (Leiden)

Kluyver, A. J.

In memoriam. Prof. Dr. M. W. Beijerinck. Nederl. Tijdschr. Hyg. Microbiol. en Serol. 5: 173-181. port. 1931. no.4.

Quanjer, H. M.

Tabaks-mozaiek en verwante ziekten. Nederl. Tijdschr. Hyg. Microbiol. en Serol. 5: 182-191. 1931. no.4.

New Phytol. (London)

Arber, A.

Studies in floral morphology. III. On the Fumarioideae, with special reference to the androecium. New Phytol. 30: 317-354. illus. D.11, 1931. no.5.

Baker, R. E. D.

Observations on the conditions for spore formation in Sporodinia grandis Link. New Phytol. 30: 303-316. D.11, 1931. no.5.

Ranjan, S. & Mallik, A. K.

A study of the catalase reaction, with special reference to respiration in plants. New Phytol. 30: 355-381. illus. D.11, 1931. no.5.

New Zeal. Journ. Agr. (Wellington)
Chamberlain, E. E.
Corticium disease of potatoes. II. Induced dormancy and tuber-injury resulting from seed treatment. New Zeal. Journ. Agr. 43: 350-356. illus. N.20, 1931. no.5.

Cunningham, G. H.
Silver-leaf disease in the orchard. New Zeal. Journ. Agr. 43: 324-326. illus. N.20, 1931. no.5.

Orchid Rev. (Richmond, England)
Arnold, R. E.
Thunia species and hybrids. Orchid Rev. 39: 361-363. D.1931. no.462.

Philipp. Journ. Sci. (Manila)
Mendiola, N. B.
Somatic segregation in double Hibiscus and its inheritance. Philipp. Journ. Sci. 46: 627-636. illus., pl. 1-3. D.1931. no.4.
H. rosa-sinensis.

Phil. Trans. Roy. Soc.London.
Lang, W. H.
On the spines, sporangia, and spores of Psilophyton princeps, Dawson, shown in specimens from Gaspé. Phil. Trans. Roy. Soc. London 219: 421-442. pl.27-28. 1931.

Proc. Roy. Soc. Edinb.
Wilson, J. A. R.
Some new facts about the structure of the cuticles in the Russian paper-coal and their bearing on the systematic position of some fossil Lycopodiales. With a note on the absence of eligulate heterosporous Lycopodiales in the fossil-record, by John Walton. Proc. Roy. Soc. Edinb. 51: 104-115. illus., pl. 1931. no.2.

Proc. Soc. Exp. Biol. & Med. (N.Y.)
Lowhwing, W. F.
Soil aeration as a factor in growth and root development of plants. Proc. Soc. Exp. Biol. & Med. 28: 868-869. Je. 1931. no.9.

Publ. Mens. Min. Indust. Dir. Agron. Montevideo.
Ramón y Acosta, D.
Investigaciones fitopatológicas. Publ. Mens. Min. Indust. Dir. Agron. Montevideo. 4: 3-18. illus. S./O. 1931. no.1/2.

Rev. Bot. Appl. (Paris)
Dufrénoy, J.
Insecticides et anticryptogamiques, d'après les récents travaux étrangers. (cont.) Rev. Bot. Appl. 11: 904-916. N.1931. no.123.

Perrier de la Bathie, H.
Les plantes introduites à Madagascar. (cont.) Rev. Bot. Appl. 11: 920-923. N.1931. no.123.

Russell, W.
Etude organogénique de fruit de l'arachide. Rev. Bot. Appl. 11: 885-890. illus. N.1931. no.123.

Walker, A.
L'emoumou (Podococcus barteri) palmier intéressant du Gabon. Rev. Bot. Appl. 11: 933-934. N. 1931. no.123.

Riv. Patol. Veg. (Pavia)
Montemartini, L.
L'Osservatorio fitopatologico di Palermo negli anni 1929-1931. Riv. Patol. Veg. 21: 257-279. S./O. 1931. no.9/10.

Rev. Fac. Agron. Univ. Montevideo.
Genta, A.
El análisis químico de las frutas de citrus y uvas aplicado a los trabajos de genética frutal que realiza la Escuela experimental de Agronomía de Salto. Rev. Fac. Agron. Univ. Montevideo 5: 279-285. Jl. 1931.

Menéndez Lees, P. & Quinteros M. hijo
Cultivo del algarrobo (Ceratonia siliqua) composición química de los frutos cosechados en el Uruguay. Rev. Fac. Agron. Univ. Montevideo 5: 99-112. illus. Jl.1931.

Rev. Fac. Agron. Univ. Montevideo. (cont.)
Quinteros, M. (hijo) & Medina, M. de
Algunas indicaciones sobre el cultivo del roble en el Uruguay y el uso de la bellota como alimento de los animales. Rev. Fac. Agron. Univ. Montevideo 5: 53-68. illus. Jl.1931.

Rev. Vitic. (Paris)
Roussopoulos, N. & Méimaris, G.
Effets de la gelée de printemps de 1931 sur le vigne experimentale a l'Institut de Pyrgos. Rev. Vitic. 75: 357-363. D.3, 1931. no.1953.

Traitement nouveau contre le court-noué. Rev. Vitic. 75: 384-386. D.10, 1931. no.1954.

Schweiz. Obst.- u. Gartenb. Zeit. (Munsingen)
Miethe, E.
Fleichfressende pflanzen und ihre pflege. X. Schweiz. Obst.- u. Gartenb. Zeit. 1931: 377. no.24.

Seed World. (Chicago)
Meeter, M.
How yellows resistant cabbage saved an industry. Seed World 30(13): 27, 37. D.25, 1931.

Trans. Nat. Hist. Soc. Formosa.
Fujita, Y.
Some remarks on Formosan camphor trees. Trans. Nat. Hist. Soc. Formosa 21: 254-258. O. 1931. no.116.
In Japanese.

Sasaki, S.
Miscellaneous contributions to the flora of Formosa XI. Trans. Nat. Hist. Soc. Formosa 21: 249-252. O.1931. no.116.
Rubus pseudo-buergeri, R. gelatinosus, R. ritozanensis, Aristolochia kankauensis, Maesa taiheizanensis, n.spp.

Trop. Woods, Yale Univ. Sch. For. (New Haven, Conn.)
Boulton, E. H. B. & Price, T. J.
Notes on Iroko (Chlorophora excelsa). Trop. Woods, Yale Univ. Sch.For. 28: 4-7. D.1, 1931.

Trop. Woods, Yale Univ. Sch. For. (cont.)

Record, S. J.
Brazilian kingwood (Dalbergia cearensis).
Trop. Woods, Yale Univ. Sch. For. 28: 1-3.
D.1, 1931.

Standley, P. C.
The huanita tree of Mexico. Trop. Woods, Yale Univ. Sch. For 28: 14-19. D.1, 1931.
Beureria huanita.

Standley, P. C.
The Mexican and Central American species of Pterocarpus. Trop. Woods, Yale Univ. Sch. For. 28: 10-14. D.1, 1931.
P. officinalis, P. acapulcensis, P. hayesii, P. orbiculatum.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-Breed.) (Leningrad)

Baranov, P. A. & Raikov, H.
"Dikii" vinograd Srednei Azii, II, Darvaz ("Wild" grapes of Asia Media. II. Dervaz). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(1): 319-351. illus. 1930(Rec'd D.1931)
Russian with English summary.

Baranov, P. & Raikov, I.
"Muzhskoi" tsvetok vinograda (The male flowers of grapes). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(1): 283-300. illus. 1930(Rec'd D.1931)
Russian with English summary.

Berliand, S. S.
K. izucheniiu raznovidnostei bamii (Hibiscus esculentus L.) (A contribution to the study of the varieties of gumbo or okra (Hibiscus esculentus L.) Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 301-319. illus. 1930. (Rec'd D.1931)
Russian with English summary.

Eig, A.
Contribution a la connaissance de l'Aegilops kotschyi Boiss. Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2):395-397. 1930 (Rec'd N.1931)
Var. brachyater n.var.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot. Gen. & Plant-breed.) (Leningrad)

Govorov, L. I.
Gorokh Abyssinii (K probleme proiskhozhdeniia kul'turnogo gorokh)(The peas of Abyssinia. A contribution to the problem of the origin of cultivated peas II). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(3): 399-431. illus. 1930(Rec'd D.1931)
Russian with English summary.

Grebennikov, P. E.
Novaia raznovidnost persidskoi pshenitsy Triticum persicum Vav. (A new variety of the Persian wheat, Triticum persicum Vav.) Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 11-17. 1930(Rec'd D.1931)
Russian with English summary.
T. persicum v. osseticum.

Hinkul, S. G.
Pal'my Chernomerskogo poberezh'ia Kavkaza (Palms of the Caucasian Black Sea coast). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(4): 95-236. illus. 1930(Rec'd D.1931)
Russian with brief English summary.

Il'in, M. M.
Khondrilla - Chondrilla L. Geograpfiia, ekologiia, kauchukonosnost (Chondrilla, geography, ecology, and rubber contents). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24 (3): 147-185. illus. (Incl.maps), pl. 1930(Rec'd D.1931)
Russian with English summary.

Ivanov, A. I.
Sorgo severo-vostochnoi Afriki i iugo-zapadnoi Arabii (The sorghums of north-eastern Africa and south-western Arabia). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 273-300. illus. 1930(Rec'd D.1931)
Russian with English summary.

Ivanova-Paroiskaia, M.
Steril'nost pyl'tsy Sredne-Aziarskikh "zhenskikh" sortov vinograda (The sterility of the pollen in the "female" grape varieties of Asia Media). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen., & Plant-Breed.) 24(1): 93-166. illus. 1930(Rec'd D.1931)
Russian with English summary.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) (Leningrad)

Jaczewski, A. A.
Bolezni klopchatnika (Cotton diseases). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) v.24, no.5. 294 p. illus. 1931.
Russian.

Kalashnikov, V. M.
K biologii tsveteniia Parthenium argentatum Gray (A contribution to the biology of flowering in Parthenium argentatum Gray). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(3): 85-98. illus. 1930(Rec'd D.1931)
Russian with English summary.

Korotkova, Z. I.
Istoriia rasprostraneniia Unshiu na poberezh'i i sovremennoe sostoianie ego kul'tury (The Japanese mandarine Unshiu on the Caucasian Black Sea coast). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(4): 397-422. illus. 1930.
Russian with English summary.

Kozhukhov, I. V.
Chislo bolovykh zarodyshevykh koreshkov u kukuruzy (Number of lateral seminal roots in maize). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 255-271. 1930(Rec'd D.1931)
Russian with English summary.

Lanina, L. B.
Iukki Zakavkaz'ia (The yuccas of Transcaucasia) Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(4): 333-376. illus.(incl. map) 1930(Rec'd D.1931)
Russian with English summary.

Lebedev, A. D.
Soderzhanie volokna v list'iakh razlichnykh form iukk i dratsen v predelakh Chernomorskogo poberezh'ia S.S.S.R. (The fibre contents in the leaves of different forms of yuccas and draecenas on the Black Sea coast). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24 (4): 385-393. 2 fold.tab. 1930(Rec'd D.1931)
Russian with English summary;

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.(cont.)

Lemmlein, E. M.
Anatomicheskoe issledovanie volokna predstavitelei roda Yucca na Chernomorskom poberezh'i Kavkaza (Anatomical investigation of the fibre in the representatives of the genus Yucca on the Caucasian Black Sea coast). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24 (4): 377-384. illus., fold.tab. 1930(Rec'd D. 1931)
Russian with English summary.

Maksimov, N. A., Kuz'min, S. P. & Ivanova, V. I.
Materialy k fiziologicheskoi kharakteristike guaiuly (Materials for the physiological characteristics of guayule). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24 (3): 99-145. illus. 1930(Rec'd D.1931)
Russian with English summary.

Markovich, V. V.
Maslina na Chernomorskom poberezh'e Kavkaza (The olive on the Black Sea coast). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(4): 3-93. fold.tab. 1930(Rec'd D.1931)
Russian with English summary.

Petiaev, S. I.
Kamfornoe derevo (The camphor-trees). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(4): 237-332. illus.(incl.maps) 1930(Rec'd D.1931)
A literary survey and description of the forms of the camphor-tree on the Caucasian Black Sea coast.
Russian with English summary.

Pisarev, V. E.
Selektsiia i priemy kul'tury guaiuly (Breeding and methods of cultivation of the guayule). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(3): 3-84. illus. (incl.maps) 1930(Rec'd D.1931)
Russian with English summary.

Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed. (cont.)

Prokhanov, I. I.
K poznaniiu kul'turnykh lykov i chesnokov Kitaia mi Iaponii (Kriticheskii obzor literatury). (A contribution to the knowledge of the cultivated alliums of China and Japan). Trudy Prikl. Bot. Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 123-188. illus. (incl.map). 1930 (Rec'd D.1931)
Russian with English summary.

Sosnovsky, D.
Gibrid persika s mindalem (A hybrid between peach and almond (Tiflis botanical garden). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 189-203. illus. 1930(Rec'd D.1931).
Russian with English summary.

Taliev, V. I.
Protsess vidoobrazovaniia v rode Tulipa (sektsiia eriostemones) (Process of the formation of species in the genus Tulipa, section eriostemones). Trudy Prikl. Bot., Gen. i Selek. (Bull. Appl. Bot., Gen. & Plant-breed.) 24(2): 57-122. illus. 1930(Rec'd D.1931)
Russian with English summary.

Tumanian, M. G.
Dikie odnozernianki i dvuzernianki v Armenii (Wild einkorns and emmers in Armenia). Trudy Prikl. Bot., Gen. & Plant-breed.) 24(2): 1-14. illus. 1930(Rec'd D.1931)
Russian with English summary.

Die Umschau (Frankfurt)

Trümpener, E.
Das abbaurätsel. Die Umschau 35: 976-980. illus. D.5, 1931. no.49.
Potato.

U. S. Dept. Agr. Misc. Publ.

Hannay, A. M.
The influence of weather on crops: 1900-1930. A. selected and annotated bibliography. U.S. Dept. Agr. Misc. Publ. 118. 245 p. O.1931 (Rec'd N.)

V.13, no.26, p. 24.

Univ. Iowa Stud. Nat. Hist. (Iowa City)

Prescott, G. W.

Iowa algae. Univ. Iowa Stud. Nat. Hist. v.13, no.6. 235 p. incl. xxxix pl. Jl.1,1931. (Rec'd D.)

Univ. Colorado Stud. (Boulder)

Ramaley, F. & Kelso, L.

Autumn vegetation of the foothills near Boulder, Colorado. Univ. Colorado Stud. 18: 239-255. pl. N.1931. no.4.

Ramaley, F.

Vegetation of chaparrel-covered foothills southwest of Denver, Colorado. Univ. Colorado Stud. 18: 231-237. N.1931. no.4.

Rogers, M. S.

Seed germination experiments with the fragrant dwarf indigo, Amorpha nana. Univ. Colorado Stud. 18: 205-213. illus. N.1931. no.4.

Vict. Nat. (Melbourne)

Field naturalists' club of Victoria - Plant names committee.

Census of the plants of Victoria. Supplement 4. Vict. Nat. 48: 142-148. N.1931. no.7.

Nicholls, W. H.

A new Victorian Caladenia. Vict. Nat. 48: 140-141. illus. N.1931. no.7.

C. tessellata.

Smith, A. L.

Pioneers in the plant world: notes on lichen-study. Vict. Nat. 48: 136-138. N.1931. no.7.

State Publications.

Ball, W. S. & Robbins, W. W.

Russian knapweed (Centaurea repens). Month. Bull. Dept. Agr. Calif. 20: 666-668. O./N. 1931. no.10/11.

Milbrath, D. G.

A report on sterilization of soil. Month. Bull. Dept. Agr. Calif. 20: 673-681. illus. O./N. 1931. no.10/11.

State Publications. (cont.)

Milbrath, D. G.
Sclerotium rolfsii. Month. Bull. Dept. Agr. Calif. 20: 627-632. illus. O./N. 1931. no.10/11.
On sugar beet.

Scott, C. E. & Stout, G. L.
Tranzschelia punctata on cultivated anemone in the Santa Clara Valley. Month. Bull. Dept. Agr. Calif. 20: 648-654. illus. O./N.1931. no.10/11.

Exper. Stat. Publ.

Virginia agricultural experiment station.
Department of botany and plant pathology.
Its Ann. Rep. Jl.1927/Je.1930: 28-34. [1931]
F.D. Fromme in charge first year, S.A. Wingard, Remainder of period.

New books.

Ballard, C. W.
Laboratory manual for courses in botany, laboratory and pharmacognosy...[by] C.W. Ballard. . . [n.p.] 1931.
Multigraphed.

Huber, J. A.
Schlüssel zum bestimmen der wichtigsten wiesen- und weidepflanzen (gräser, kräuter und kleearten) im blütenlosen zustande. Berlin, P.Parey, 1931.

Hyde, H. A.
Welsh timber trees, native and introduced. Cardiff, The National museum of Wales...., 1931.

International address book of botanists...London Bailliere, Tindall and Cox, 1931.
Prepared in accordance with resolution passed at 5th International botanical congress.

Lockwood, A. G. B.
Gardens of colony and state. Gardens and gardeners of the American colonies and of the Republic before 1840. N.Y., Scribners, 1931.